

**FERO ENGINEERING**ENVIRONMENTAL ENGINEERING & CONSULTING

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August 15, 2013

Mr. David Young  
California Regional Water Quality Control Board  
Los Angeles Region  
Site Cleanup Program  
320 West 4<sup>th</sup> Street, Suite 200  
Los Angeles, California 90013

## First Semi-Annual Groundwater Well Monitoring Report 2013

**Continental Heat Treating**

10643 Norwalk Boulevard, Santa Fe Springs, California  
(Site Id. No. 204GW00, SCP No. 1057)

Dear Mr. Young:

Fero Environmental Engineering, Inc. (Fero) conducted the first semi-annual groundwater monitoring for 2013 at the subject Continental Heat Treating ("CHT") site on May 2, 2013. The CHT site is located to the south of the former Jalk Fee Property ("Jalk Fee") which has an active environmental case with the Regional Water Quality Control Board for releases of halogenated volatile organic compounds ("VOC"), including tetrachloroethylene ("PCE") and trichloroethylene ("TCE") on the Jalk Fee site. The groundwater monitoring event was coordinated with Cardno ERI ("Cardno"), Exxon/Mobil's consultant for their ongoing investigation on the Jalk Fee site to the north so that the groundwater samples were collected at both sites on the same day. During the sampling event, Fero monitored ten wells (MW1, MW2, MW3, MW4, MW5s, MW5m, MW5d, MW6s, MW6m and MW6d) on the CHT site. Fero incorporated the data collected by Cardno from thirteen of their near field upgradient wells (MW5, MW6a, MW6b, MW6c, MW7a, MW7b, MW7c, MW9a, MW9b, MW9c, MW10a, MW10b and MW10c) on the Jalk Fee site.

**Site Description**

The CHT site ("Site") is an approximate 70,000 ft<sup>2</sup> rectangular parcel located at 10643 Norwalk Boulevard, Santa Fe Springs, California 90670 on the west side of Norwalk Boulevard approximately 450 feet north of Florence Avenue. The Site is surrounded by primarily industrial properties: Coast Aluminum and Architectural Inc. to the northwest, NHK Laboratories to the north, Oxyhealth LLC to the south, Excel Garden Products to the east across Norwalk Boulevard and a trophy warehouse/distribution tenant to the west. Improvements on the Site include a 20,000 ft<sup>2</sup> industrial building built in 1969 which is occupied by CHT. Recent construction activities at the CHT site included a 5,000 ft<sup>2</sup> addition added to the west end of the existing building, the face of the entire building was upgraded consistent with City of Santa Fe Springs requirements, and the remainder of the site was paved with concrete during 2011 and 2012. Figure 1 provides a plot of the Site.

CHT or its predecessor have occupied the Site since the building was built in 1969 and they use the building to heat treat metal parts. Although no longer in use, CHT used a PCE solvent degreaser in the approximate middle of the building from 1986 to 1995. Centec reported that prior investigations around the former degreaser and in the northwest corner of the CHT site identified concentrations of chlorinated organics.<sup>1</sup>

Former occupants of the properties adjacent to the CHT site were Mobil "Jalk Fee" to the north and former Hathaway oil production to the south and west. Centec reported that Hathaway stored abandoned equipment proximate to the northwest corner of the CHT site and that the former Jalk Fee property was used for oil production and storage, as well as other uses, for several decades. Centec further indicated that significant soils and groundwater contamination had been detected on the former Jalk Fee property from at least 1990. Extremely high concentrations of PCE were reportedly detected within 6 feet of CHT's northwestern fence and approximately 55 feet north of the fence. Mobil reportedly removed soil from VOC impacted areas of their site (locations indicated on Figures 1-9) , including a small excavation slightly north of CHT's northwest corner.

According to a February 21, 1975 Santa Fe Springs Fire Department Permit, Hathaway operated a 10,000 gallon gasoline underground storage tank ("UST"), a 5,000 gallon diesel UST and a 5,000 gallon solvent UST on its property to the south of the CHT site.

Ongoing soils and groundwater investigations on the former Jalk Fee property indicate elevated concentrations of chlorinated organics and lesser concentrations of fuel hydrocarbons in both the soil and groundwater. The general groundwater flow direction reported by Cardno ERI was to the south toward the CHT site and therefore the organics originating on the former Jalk Fee property represent a significant threat to the CHT site.<sup>2</sup>

Cardno confirmed that oil production facilities occupied the former Jalk Fee property from the 1920's to 1990 when such facilities were removed so the site could be redeveloped. Cardno further indicated that TRC Alton Geoscience ("TRC") performed remediation at the Jalk Fee site along with an exposure assessment that suggested the site did not represent a significant threat to site occupation or to the underlying groundwater. The City of Santa Fe Springs reportedly did not hold the same opinion and reopened the Jalk Fee site for further investigations and evaluation.

## **Geology and Hydrogeology**

The CHT site is located within the Santa Fe Springs Oil Field on the Santa Fe Springs Plain, which is part of the Montebello Forebay non-pressure area of the Central Basin. Groundwater is found throughout the region under unconfined conditions in the Recent Alluvium and in the underlying

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<sup>1</sup> Collins, Steven N., REA and Daniel R. Louks, R.G., *Phase II Site Investigation Report*, January 2002, Centec Engineering, Inc., 1601 Dove Street, Suite 100, Newport Beach, CA 92660

<sup>2</sup> Anderson, James and Andy Nelson, Revised Well Installation Report, Former ExxonMobil Jalk Fee Property, May 17, 2011, Cardno ERI, 4572 Telephone Road, Suite 916, Ventura, CA 93003

Exposition Aquifer. Within the Santa Fe Springs Oil Field, the upper 100 feet of sediments consist predominantly of permeable sands, although the upper 15 feet of sediments (and at greater depths particularly inside the building on the Site) have a higher silt and clay content and lower permeability. Investigations on the CHT site indicate the underlying soils consist of inter-bedded layers of silt, sandy silt, sand and gravel from the surface to at least 170 feet below grade (“fbg”).

The first regional groundwater-bearing zone in the vicinity of the Site is the Exposition Aquifer, which is encountered at approximately 100 fbg. This aquifer ranges in thickness from 75 to 100 feet and is underlain by a 50 foot thick aquiclude, beneath which is the Gage Aquifer.<sup>3</sup> The depth to groundwater during the last year of monitoring has ranged from approximately 88 to 91 feet below top of casing and the slope of the groundwater table has consistently indicated a flow direction of slightly west of south under a most recent gradient of approximately 0.0076 ft/ft.

### **Groundwater Well Installations and Sampling**

Fero installed three groundwater monitoring wells on the CHT site during August 2010 as directed by the Regional Water Quality Control Board (“RWQCB”), May 5, 2010, *Requirements to Submit Technical Reports (California Water Code Section 13267), Continental Heat Treating 10643 Norwalk Boulevard, Santa Fe Springs, California (Site ID NO. 204GW00, SCP No. 1057)*. This document requested, “further delineation of the lateral and vertical distribution of impacted soil, soil gas, and groundwater on and offsite (if necessary)”. Therefore, Fero obtained permits from the Los Angeles County Department of Public Health to construct three groundwater monitoring wells on the CHT site. BC2 Environmental Corporation was subsequently retained to install the wells during the period from August 3-5, 2010. Well MW1 was installed southwest of the onsite building near the southern property line in an anticipated down gradient groundwater flow direction, well MW2 was located near the northwestern corner of the CHT site, and well MW3 was located near the northeastern corner of the CHT site. Wells MW1 & MW2 were installed using a CME-75 drill rig fitted with 8 inch diameter hollow stem augers. Because of limitations due to overhead power lines and trees, well MW3 was installed with a limited access rig fitted with the same 8 inch diameter augers. Well locations are indicated on Figure 1.

The well borings were logged by a Fero geologist and were visually classified in the field in accordance with the Unified Soil Classification System (USCS) and American Society for Testing and Materials (ASTM) which include evaluations of moisture content, consistency, texture, and soil characteristics. The soils generally consisted of sands and silts. Soil samples were obtained at five foot intervals to a depth of 95 feet in all borings. Groundwater was encountered at a depth of approximately 98 feet in the well borings.

The monitoring wells were constructed of 2 inch diameter Schedule 40 PVC casing to a depth of 120 feet below grade (fbg) with a 30 foot screened interval. The screen consisted of 0.020 inch slotted pipe and the filter pack in the annular space to approximately 2 foot above the screened section consisted of #3 Monterey sand. Four to five feet of hydrated bentonite chips were placed on top of

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<sup>3</sup> California Department of Water Resources. 1961. *Groundwater Geology of the Coastal Plain of Los Angeles County, Idealized Geologic Sections M-M’-M’’ and N-N’*.

the sand pack and the annulus from the bentonite seal to approximately 1 fbg was filled (tremie method) with Portland type III cement slurry and the installations were completed at grade with concrete and a traffic-rated well vault.

The well casings were surveyed on August 10, 2010 with respect to Mean Sea Level and proper lateral controls by Dulin & Boynton. On August 9, 2010, each of the wells were subsequently developed using a Smeal development rig using a decontaminated suction bailer, a surging assembly and well pump until water flowed unhindered through the well screens of each well and the development water appeared free of soil fines. On August 20, 2010, after the wells had time to stabilize, the depth to the water surface in each well was measured with electronic gauging equipment which allows an accuracy of 0.01 feet.

Monitoring well MW4 was installed inside the CHT building proximate to the former degreaser location on October 24 & 25, 2011 at the location indicated on Figure 1. The boring was conducted to 120 fbg with a limited access CME 75 (because of overhead restrictions). Consistent with the RWQCB conditional approval, the boring was finished as a groundwater monitoring/VES well. A pilot hole was drilled with 8" augers followed by 10" augers to set the well. The well consists of a 4" PVC pipe with 0.020" slotted sections from 41.5 to 116.5 fbg. The boring annulus was filled to approximately 1 foot above the slotted section of the well with #3 Monterey sand. The space above the filter pack was filled with hydrated bentonite chips to 35 fbg and the annulus was filled from 35 fbg to approximately 1 fbg with neat cement, consistent with County of Los Angeles requirements. The well installation was finished at grade with a traffic rated road vault which was concreted in place. The well was installed consistent with a permit from the County. A well schedule is included as Table 1.

Groundwater monitoring using all of the CHT site wells (MW1-4) was first conducted on December 23, 2011. Initial attempts to develop MW4 with a bailer and stainless steel pump were not as successful as hoped so the first sample collected from MW4 on December 23, 2011 was very turbid. Additional development occurred on January 10, 2012 which removed considerably more fines using a swab disc and suction bailer. A sample was collected following development and additional purging and those data were reported in a January 13, 2012 monitoring report to the RWQCB. A second round of groundwater monitoring was conducted on May 3, 2012. That monitoring event was the subject of Fero's, *First Semi-Annual Groundwater Well Monitoring Report 2012, **Continental Heat Treating**, 10643 Norwalk Boulevard, Santa Fe Springs, California, (Site Id. No. 204GW00, SCP No. 1057)*, dated August 13, 2012.

During the sampling event, Fero gauged the elevation of groundwater in the four wells on the site (MW1-MW4) as indicated above. Elevation changes at the CHT site due to construction at the time required modifications in at least one of the well casings so a new well survey was conducted on December 14, 2011 to tie the modified wellheads together to vertical and lateral controls. Elevation gauging data and survey modifications are indicated in Table 2.

Fero conducted additional well installations at the CHT site consistent with Fero's, November 15, 2011, *Soils Investigation Report and Groundwater Well Installation Work Plan* ("Workplan"), with the Regional Water Quality Control Board – Los Angeles Region's, *Requirement to Submit Additional Technical Reports and Approval of Work Plan for Additional Groundwater Investigation Pursuant to California Water Code Section 13267 Order* ("Directive"), dated January 23, 2012 and with the subsurface investigation portion of the RWQCB's, *Approval of Work Plan for Additional Subsurface Investigation and Indoor Air Sampling Pursuant to California Water Code Section 13267 Order* ("Approval"). The RWQCB Directive approved the installation of groundwater monitoring wells discussed in Fero's Workplan and requested additional investigations "to delineate the vertical and lateral extent of the VOC plume in groundwater."

The well installations were completed and groundwater sampling was conducted in a coordinated effort with Cardno, ExxonMobil's consultant in connection with the former Jalk Fee property to the north. The sampling locations were additionally modified consistent with RWQCB discussions during an onsite meeting on January 12, 2012.

Consistent with the well installation approval in the Directive and with the Approval, two well clusters (MW5 and MW6) were installed at the CHT site. To remain consistent with the wells installed on the Jalk Fee property, Fero install all of the MW5 and MW6 wells as single installations in separate boreholes and completed all of the wells with 4 inch PVC casings. The locations of the well clusters are indicated on Figure 1.

The MW5 and MW6 well clusters were installed with either a CME-75 or CME-85 with one cluster along the northern property line and one along the southern property line as indicated on Figure 1. The shallow borings at each location were conducted to 110 fbg and soil samples were collected at 5 foot intervals starting at 5 fbg for lithologic logging. A pilot hole was drilled at each location with 8" augers followed by 10" augers to set the well casings. The wells consisted of 4" PVC pipe with 0.020" slotted sections. The southern well (MW5s) screen extended from 90 to 110 fbg. The northern water table well (MW6s) was installed with an extended screened interval from 20 to 110 fbg to allow for possible future use with a vapor extraction system. The boring annuli were filled to approximately 1 foot above the slotted section of the well with #3 Monterey sand and the space above the filter pack was filled with 4 to 5 feet of hydrated bentonite chips and the remaining annuli were filled to 1 fbg with neat cement, consistent with County of Los Angeles requirements. The well installations were finished at grade with a traffic rated road vault which were concreted in place. The well installations were permitted through the County of Los Angeles Department of Health Services.

In an effort to obtain consistent data with Cardno's proposal for the Jalk Fee site, the screened section of the deeper well casings at each location were installed from 160 to 170 fbg and the screen sections of the middle wells extended from 130 to 140 fbg. The annuli to approximately 1 foot above the screen at each well installation were filled with #3 sand. Approximately 5 feet of each annulus above the well screen pack was sealed with hydrated bentonite chips and the annulus above the bentonite chips to 1 foot below the surface will be filled with neat cement. All of the well locations were completed with well vaults. Table 1 provides a schedule of the well installations.

During installations, the middle depth wells proceeded as planned. Fero was able to collect soil samples to 140 fbg. The wells were set with the double pass installation technique described above. The deeper borings presented an issue related to sampling however. Heaving sands below approximately 140 fbg precluded collection of representative formation samples and caused the first of the deep wells (MW5d) to be installed after a separate third pass. Because of the difficulties with this installation, Fero decided to install the northern deep well (MW6d) with a single pass using plugged 10 inch augers and to install a casing with a pre-packed filter from 160 to 170 fbg. This allowed for the installation of a very effective monitoring well however, it did not allow for lithologic sampling below 140 feet.

The monitoring wells were developed during the three days of July 30, 2012 to August 1, 2012. Fero retained BC2 Environmental to develop the wells with a well swab, suction bailer and pump until the wells were free of fines and the turbidity was less than 10 ntu. Consistent with the Approval, Fero retained Dulin and Boynton to survey the new well locations on August 1, 2012. The wells were gauged on August 10, 2012. Table 2 summarizes the depth to groundwater and elevation data.

Semi-annual groundwater monitoring was subsequently conducted at the Site on November 16, 2012, and reported in Fero's *Second Semi-Annual Groundwater Well Monitoring Report 2012, dated February 13, 2013*.

### **2013 Groundwater Sampling**

Fero conducted the first semi-annual monitoring event of 2013 in conjunction with Cardno on May 2, 2013. Prior to pumping any groundwater, Fero measured the depth to groundwater in each of the ten wells on the CHT site. The depth gauging and water elevations in the wells are summarized in Table 2. Note that the groundwater elevation in the water table wells has dropped more than 2 feet since the last monitoring in November 2012 and nearly 4 feet in the past year. The well locations are indicated on Figure 1.

The groundwater elevations in the water table wells, screened from 90 – 110 fbg were used along with those collected from the similarly screened Cardno wells to determine a generally planar surface which represents the local groundwater table and this surface was superimposed onto the base map (Figure 1). The soil type at the slotted section of MW4 is considerably different than the soils located at the screened depths of the other water table wells. The soils contained primarily silt and clay at MW4 and it was sandier at the other well locations. The change in soil may result in less communication with soil profiles at the other wells resulting in an apparent very slight mound at MW4. The anomaly previously identified at Cardno well MW5 had apparently been corrected. Fero used the MW5 datum in the contouring model which resulted in smooth contours for the water table surface. The resulting slope of the groundwater table indicates a flow direction generally to the south southwest under a gradient of approximately 0.0077 ft/ft.

Likewise the water elevation data from the middle wells, screened from 130 – 140 fbg and the deep wells, screened from 160 – 170 fbg were contoured to determine the respective piezometric surfaces for the middle and deep zones. The resultant contours for the middle well data are provided on Figure 2 and the contours for the deep wells are presented on Figure 3. The general flow direction of

the middle zone is to the south under a pressure gradient of 0.0098 ft/ft; very similar to that measured in November 2012. The general flow direction of the deep zone is also to the south with a westerly component on the western portions of the Jalk Fee property. The pressure gradient of the deep zone is approximately 0.0085 ft/ft,; higher than that measured in November 2012. The deeper water bearing zones appear to generally be under pressure with respect to the water table with the gradient being most pronounced in the area of Cardno's MW10 and CHT MW6 clusters at an upward gradient of approximately 0.014 ft/ft (less than November 2012 @ 0.022 ft/ft) and least pronounced in the CHT MW5 cluster with no gradient (0.00 ft/ft) from deep to water table, a downward gradient of approximately 0.023 ft/ft (less than November 2012) from water table to middle zone and an upward gradient of approximately 0.045 ft/ft from the middle to deeper zone.

Following gauging and prior to sampling on May 2, 2013, CHT groundwater monitoring wells MW1-3, MW5s, MW5m, MW5d, MW6s, MW6m and MW6d were purged of between 25-45 gallons of water, the volume of which was based upon the volume of freestanding water in the wells and the observed stabilization of physical/chemical parameters during purging. The monitoring wells were purged with a Grundfos variable speed 120-volt AC powered two stage centrifugal Stainless Steel purge pump with discharge through 1/2 inch PVC and Teflon tubing until pH, color, conductivity, and temperature had stabilized. Groundwater was pumped from the monitoring wells at a rate of approximately 1 gallon per minute. Physical and chemical purge monitoring parameters were measured in the field at the discharge line of the pump. Well purging data are attached hereto as Attachment A.

Subsequent to purging each well, the pump rate was reduced to approximately 100 ml/min whereupon a representative sample of groundwater was collected from the discharge line using 40 ml. glass sample vials. Teflon lined caps were secured tightly onto the 40 ml vials and each was visually inspected to assure that zero headspace had been achieved. The sample vials containing groundwater from each well were immediately placed in an ice chest containing ice and transported for analysis to Enviro-Chem, Inc. in Pomona accompanied by appropriate Chain-of-Custody documentation.

Due to the difficulty of pumping MW4, it was bailed dry using a clean bailer (approximately 5 gallons), then a sample was collected using a new sampling bailer. As indicated above, Teflon lined caps were secured tightly onto the 40 ml vials and each was visually inspected to assure that zero headspace had been achieved. The sample vials containing groundwater from the well were immediately placed in an ice chest containing ice and transported at the end of the sampling day for analysis to Enviro-Chem, Inc. in Pomona accompanied by appropriate Chain-of-Custody documentation.

The groundwater samples were analyzed for Volatile Organic Compounds (VOCs) using EPA Method 8260B. Groundwater VOC analytical results from this and from previous events are summarized in Table 3. Lab analytical reports with associated chain-of-custody documentation are included in Attachment B. Data requested by the EPA are presented in EPA format in Attachment C.

Groundwater from the well purging activities was contained in DOT approved drums onsite, appropriately profiled, and accepted by DeMenno Kerdoon in Compton, California for treatment.



The groundwater was transported to DeMenno Kerdoon in Compton, California for treatment on May 21, 2013.

The CHT and Cardno PCE and TCE data collected from this groundwater sampling event were contoured to generate iso-concentration contours for the respective water table, middle and deep well locations. These contours were superimposed onto the plot map in Figures 4-9. The base maps were modified to include the new well clusters installed by Cardno (MW9 and MW10 series). In addition, appropriate building footprints and former soil excavation locations on the Jalk Fee site have been added.

The PCE and TCE concentrations detected in the groundwater at the CHT site appear to be primarily associated with upgradient sources.

Except for the Cardno MW6 cluster on the Jalk Fee site, the PCE concentrations decreased with depth into the groundwater. Likewise, except for the Cardno MW6 cluster on the Jalk Fee site, the TCE concentrations decreased with depth.

The next semi-annual sampling event will likely occur sometime during November 2013. Fero will again coordinate the sampling event with the Cardno ERI, consultants for the adjacent Jalk Fee site. Should you have any questions regarding the content of this Semi-Annual Groundwater Monitoring Report, please do not hesitate to call the undersigned at (714) 256-2737.

Respectfully,  
Fero Environmental Engineering, Inc.

Rick L. Fero, P.E.  
President



RLF:jbp  
[758wellmon0513]  
cc Mr. James Stull (via E-mail Only)  
Michael A Francis, Esq. (Via E-mail Only)  
Mr. Robert Schneider (Via E-mail Only)



Table 1

## Well and Probe Schedule Continental Heat Treat

<u>well/probe No.</u>	<u>MW-1</u>	<u>MW-2</u>	<u>MW-3</u>	<u>MW-4</u>	<u>MW-5s</u>	<u>MW-5m</u>	<u>MW-5d</u>	<u>MW-6s</u>
installation date	8/3/2010	8/4/2010	8/5/2010	10/24/2011	7/9/2012	7/10/2012	7/11/2012	7/19/2012
elevation (ft MSL)	137.08	138.04	137.73	137.55	137.49	137.37	137.54	137.84
depth of boring (ft)	120	120	120	117	110	140	170	110
casing diameter (in)	2	2	2	4	4	4	4	4
depth to top of screen (ft)	90	90	90	90	90	130	160	20
depth to bottom of screen (ft)	120	120	120	117	110	140	170	110
vapor probe depths (ft)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a

<u>well/probe No.</u>	<u>FVP1</u>	<u>FVp2</u>	<u>FVP3</u>	<u>FVP4</u>	<u>FNP19</u>	<u>FNP20</u>	<u>FNP21</u>	<u>FNP22</u>
installation date	10/19/2011	10/26/2011	10/20/2011	10/21/2011	7/16/2012	7/17/2012	7/18/2012	7/23/2012
elevation (ft MSL)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
depth of boring (ft)	90	90	90	90	85	85	85	85
casing diameter (in)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
depth to top of screen (ft)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
depth to bottom of screen (ft)	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
vapor probe depths (ft)	5	5	5	5	5	5	5	5
	15	15	15	15	15	15	15	15
	30	30	30	30	30	30	30	30
	60	60	60	60	60	60	60	60
	90	90	90	90	85	85	85	85

<u>well/probe No.</u>	<u>MW-6m</u>	<u>MW-6d</u>
installation date	7/20/2012	7/24/2012
elevation (ft MSL)	137.95	138.01
depth of boring (ft)	140	170
casing diameter (in)	4	4
depth to top of screen (ft)	130	160
depth to bottom of screen (ft)	140	170
vapor probe depths (ft)	30	n/a
	60	
	90	

**Table 2**  
Summary of Groundwater Elevation  
**Continental Heat Treating**  
10643 Norwalk Boulevard, Santa Fe Springs, California  
(Site Id. No. 204GW00, SCP No. 1057)

Well Number	Date	TOC Elevation (ft MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft MSL)
MW1	3/29/11	137.07	97.16	39.91
	6/15/11		94.50	42.57
	9/20/11		91.81	45.26
	12/23/11	137.08	90.13	46.95
	5/3/12		88.46	48.62
	8/10/12		88.71	48.37
	11/16/12		90.28	46.80
	5/2/13		92.56	44.52
MW2	3/29/11	137.43	96.45	40.98
	6/15/11		93.74	43.69
	9/20/11		91.06	46.37
	12/23/11	138.04	90.05	47.99
	5/3/12		88.43	49.61
	8/10/12		88.65	49.39
	11/16/12		90.13	47.91
	5/2/13		92.48	45.56
MW3	3/29/11	137.71	96.42	41.29
	6/15/11		93.94	43.77
	9/20/11		91.12	46.59
	12/23/11	137.03	89.43	47.60
	5/3/12		87.69	49.34
	8/10/12		87.80	49.23
	11/16/12		89.16	47.87
	5/2/13		91.41	45.62
MW4	12/23/11	137.55	89.43	48.12
	5/3/12		87.69	49.86
	8/10/12		86.37	51.18
	11/16/12		89.25	48.30
	5/2/13		91.47	46.08
MW5s	8/10/12	137.49	88.85	48.64
	11/16/12		90.23	47.26
	5/2/13		92.46	45.03
MW5m	8/10/12	137.37	89.49	47.88
	11/16/12		91.00	46.37
	5/2/13		93.24	44.13
MW5d	8/10/12	137.54	88.79	48.75
	11/16/12		90.26	47.28
	5/2/13		92.51	45.03
MW6s	8/10/12	137.84	88.41	49.43
	11/16/12		89.89	47.95
	5/2/13		92.21	45.63

**Table 2 (cont.)**  
Summary of Groundwater Elevation  
**Continental Heat Treating**  
10643 Norwalk Boulevard, Santa Fe Springs, California  
(Site Id. No. 204GW00, SCP No. 1057)

Well Number	Date	TOC Elevation (ft MSL)	Depth to Groundwater (ft)	Groundwater Elevation (ft MSL)
MW6m	8/10/12	137.95	88.08	49.87
	11/16/12		89.68	48.27
	5/2/13		91.95	46.00
MW6d	8/10/12	138.01	87.26	50.75
	11/16/12		88.78	49.23
	5/2/13		91.07	46.94

**Table 3**  
**Summary of Groundwater Analyses**  
**Continental Heat Treating**  
10643 Norwalk Boulevard, Santa Fe Springs, California  
(Site Id. No. 204GW00, SCP No. 1057)  
(µg/L)

Well	Date	Ben	Chl	1,4- DCB	1,1- DCA	cis-1,2- DCE	t-1,2- DCE	1,2- DCA	1,1- DCE	HCB	NAP	1,1,2,2- TCA	PCE	1,2,3- TCB	1,2,4- TCB	TCE	TFM	VC
MW1	8/20/10	ND	0.97	ND	17.3	12.2	ND	113	224	ND	ND	ND	184	ND	ND	154	2.79	5.96
	3/29/11	ND	1.02	ND	17.7	600	14.9	ND	184	ND	ND	ND	210	ND	ND	170	5.54	27.8
	6/15/11	ND	1.50	ND	14.1	85.1	2.06	ND	117	ND	ND	ND	228	ND	ND	167	5.51	3.13
	9/23/11	ND	4.20	ND	25.3	118	2.14	ND	191	ND	ND	ND	182	ND	ND	164	13.2	3.50
	12/23/11	ND	3.33	ND	16.3	147	1.92	2.66	85.3	ND	1.90	ND	201	ND	ND	164	6.74	1.51
	5/3/12	ND	6.15	ND	32.2	433	6.80	4.96	191	ND	ND	ND	196	ND	ND	224	13.6	10.0
	11/16/12	ND	5.98	ND	28.6	191	5.75	4.96	139	ND	ND	ND	197	ND	ND	158	6.24	11.0
	5/2/13	ND	5.45	ND	18.5	95.3	2.68	4.21	96.5	ND	ND	ND	151	ND	ND	135	7.78	12.3
MW2	8/20/10	ND	1.71	0.78	21.8	59.6	0.76	5.43	126	1.14	2.47	0.92	235	2.72	1.24	178	9.49	0.89
	3/29/11	ND	1.89	ND	22.8	55.1	ND	2.74	161	1.14	ND	ND	214	ND	ND	158	10.0	0.53
	6/15/11	ND	3.07	ND	24.2	85.3	1.53	4.83	149	ND	ND	ND	338	ND	ND	172	13.1	3.09
	9/23/11	ND	5.08	ND	28.1	100	2.09	5.88	177	ND	ND	ND	245	ND	ND	161	21.3	4.01
	12/23/11	ND	3.66	ND	18.3	53.0	0.65	2.69	77.6	NC	ND	ND	252	ND	ND	148	10/6	ND
	5/3/12	ND	8.72	ND	41.9	92.8	0.54	5.21	194	ND	ND	ND	177	ND	ND	163	24.2	ND
	5/2/13	ND	10.9	ND	17.1	66.6	ND	3.75	87.0	ND	ND	ND	233	ND	ND	139	24.4	ND
MW3	8/20/10	4.50	ND	ND	6.19	38.9	4.13	ND	57.1	1.18	2.43	ND	56.9	3.26	1.29	160	1.22	ND
	3/29/11	3.17	ND	ND	11.7	49.0	4.41	ND	185	ND	ND	ND	82.2	ND	ND	200	4.75	3.78
	6/15/11	1.01	0.91	ND	12.1	41.8	11.2	ND	124	ND	ND	ND	151	ND	ND	149	5.26	1.71
	9/23/11	ND	1.30	ND	14.3	43.6	13.6	ND	146	ND	ND	ND	120	ND	ND	130	7.45	1.32
	12/23/11	ND	1.61	ND	9.57	32.6	8.33	ND	62.1	ND	ND	ND	143	ND	ND	133	5.33	ND
	5/3/12	ND	5.81	ND	25.4	77.8	15.7	0.65	190	ND	ND	ND	137	ND	ND	165	13.3	1.35
	11/16/12	3.59	4.82	ND	15.1	60.1	11.7	ND	104	ND	ND	ND	94	ND	ND	140	7.76	ND
	5/2/13	7.05	2.70	ND	9.26	59.6	16.8	ND	70.7	ND	ND	ND	89.3	ND	ND	85.9	2.50	6.18
MW4	12/23/11	ND	0.54	ND	3.61	172	5.47	ND	16.9	ND	3.05	ND	36.0	ND	ND	21.9	ND	8.20
	1/10/12	ND	ND	ND	5.08	62.2	2.88	ND	25.6	ND	3.22	ND	70.1	ND	ND	47.5	ND	3.51
	5/3/12	ND	2.29	ND	20.9	284	9.63	0.54	148	ND	ND	ND	93.0	ND	ND	90.3	3.51	18.5
	11/16/12	ND	10.0	ND	43.7	424	20.7	ND	308	ND	ND	ND	94.2	ND	ND	95.2	ND	66.7
	5/2/13	ND	4.67	ND	10.7	215	8.95	ND	56.3	ND	ND	ND	118	ND	ND	80.3	2.89	45.8
MW5s	11/16/12	ND	4.73	ND	26.8	76.3	3.71	ND	163	ND	ND	ND	110	ND	ND	154	ND	2.36
	5/2/13	ND	4.02	ND	16.0	77.3	10.2	ND	116	ND	ND	ND	117	ND	ND	165	10.2	23.1
MW5m	11/16/12	ND	4.32	ND	42.3	104	ND	8.69	448	ND	ND	ND	102	ND	ND	132	ND	ND
	5/2/13	ND	3.42	ND	15.9	38.3	ND	3.30	153	ND	ND	ND	170	ND	ND	180	4.71	ND

**Table 3 (cont.)**  
**Summary of Groundwater Analyses**  
**Continental Heat Treating**  
10643 Norwalk Boulevard, Santa Fe Springs, California  
(Site Id. No. 204GW00, SCP No. 1057)  
(µg/L)

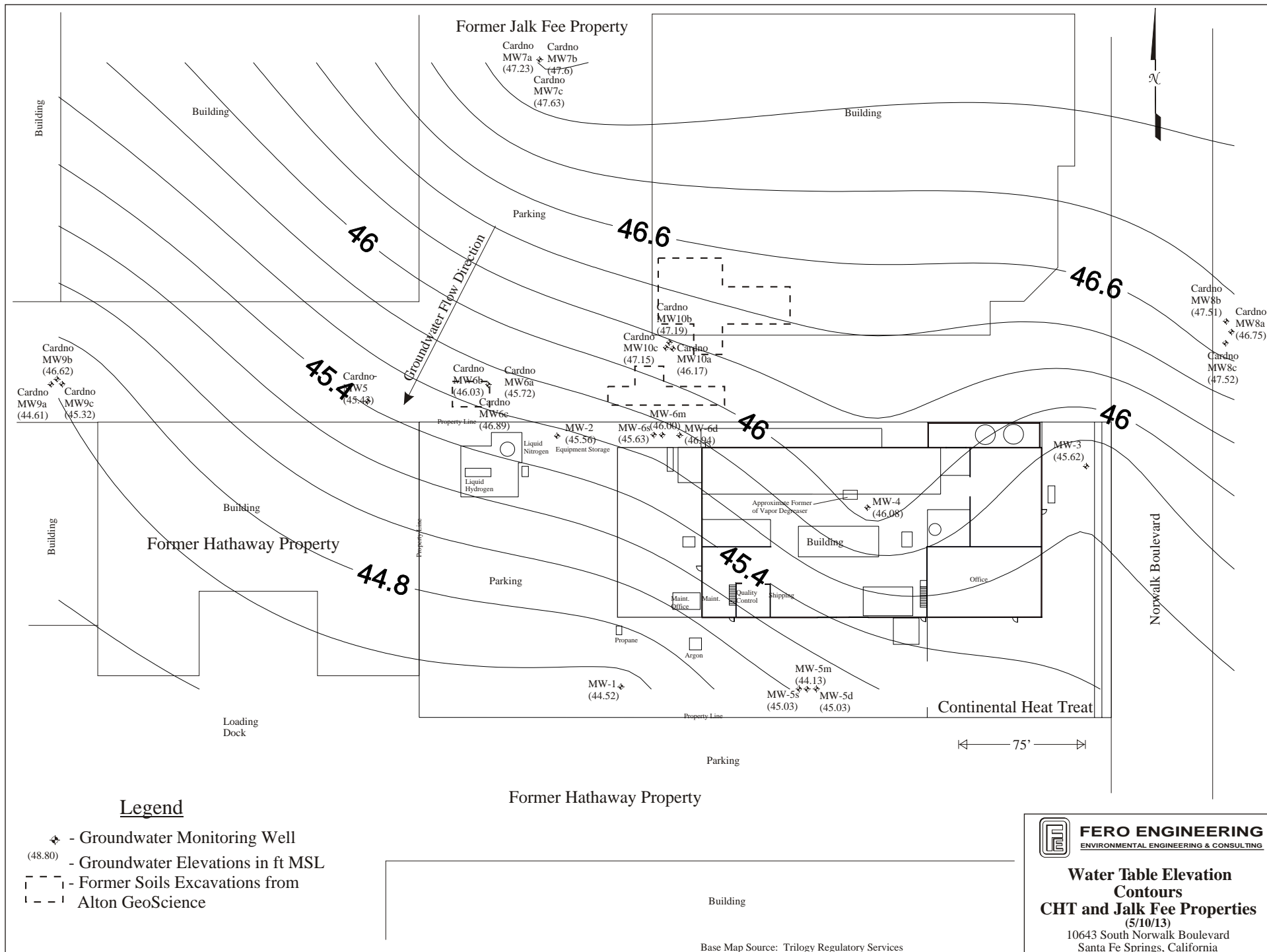
Well	Date	Ben	Chl	1,4- DCB	1,1- DCA	cis-1,2- DCE	t-1,2- DCE	1,2- DCA	1,1- DCE	HCB	NAP	1,1,2,2- TCA	PCE	1,2,3- TCB	1,2,4- TCB	TCE	TFM	VC
MW5d	11/16/12	ND	ND	ND	7.0	35.1	1.43	1.21	90.2	ND	ND	ND	9.42	ND	ND	44.4	ND	ND
	5/2/13	ND	ND	ND	6.48	37.7	1.97	1.07	76.1	ND	ND	ND	3.29	ND	ND	46.9	ND	ND
MW6s	11/16/12	ND	12.3	ND	31.7	137	4.53	4.85	182	ND	ND	ND	195	ND	ND	153	17.4	8.73
	5/2/13	ND	10.0	ND	19.2	178	3.16	4.75	87.6	ND	ND	ND	181	ND	ND	128	19.0	21.4
MW6m	11/16/12	ND	6.34	ND	30.0	74.3	ND	7.90	195	ND	ND	ND	171	ND	ND	150	4.40	ND
	5/2/13	ND	8.39	ND	21.0	49.4	ND	4.87	112	ND	ND	ND	208	ND	ND	146	8.64	ND
MW6d	11/16/12	ND	ND	ND	12.7	68.2	1.09	3.79	166	ND	ND	ND	12.8	ND	ND	140	ND	ND
	5/2/13	ND	ND	ND	11.2	71.7	0.66	2.49	172	ND	ND	ND	14.2	ND	ND	167	ND	ND

DL – detection limit, ND = Not Detected at DL , Ben - Benzene, Chl - Chloroform, DCB - Dichlorobenzene, DCA – Dichloroethane, DCE – Dichlorethene, HCB – Hexachlorobutadiene, NAP – Naphalene, TCA – Tetrachloroethane, PCE – Tetrachloroethene, TCB – Trichlorobenzene, TCE – Trichloroethene, TFM – Trichlorofluoromethane , VC – Vinyl Chloride

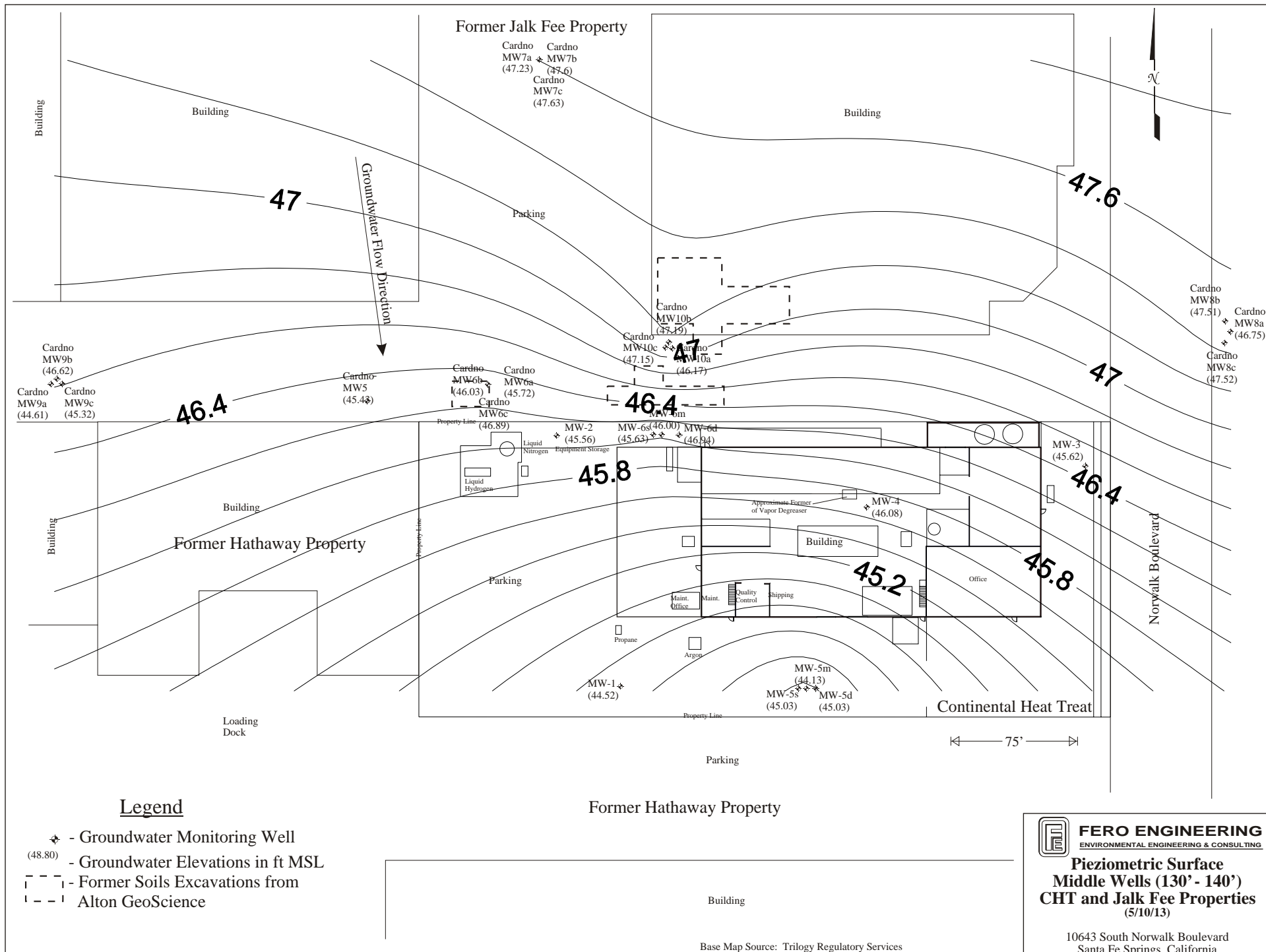
**Table 3 (cont.)**  
**Summary of Groundwater Analyses**  
**Continental Heat Treating**  
10643 Norwalk Boulevard, Santa Fe Springs, California  
(Site Id. No. 204GW00, SCP No. 1057)  
(µg/L)

Well	Date	Toluene	Sec-BBen	Ethyl Ben	IPB	4 IPT	n PBen	1,2,4-TMB	Xylene	111TCA	Freon-113
MW1	12/23/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	5/3/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	11/16/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	5/2/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	16.1
MW2	12/23/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	5/3/12	ND	ND	ND	ND	ND	ND	ND	ND	1.14	--
	11/16/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	5/2/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	38.6
MW3	12/23/11	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	5/3/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	11/16/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	5/2/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	13.1
MW4	12/23/11	1.50	3.72	1.42	7.02	0.65	7.03	ND	ND	ND	--
	1/10/12	ND	2.71	1.61	6.04	ND	6.30	1.31	1.20	ND	--
	5/3/12	ND	2.18	1.41	4.14	ND	3.17	ND	ND	ND	--
	11/16/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	5/2/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	11.0
MW5s	11/16/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	5/2/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	21.3
MW5m	11/16/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	5/2/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	18.7
MW5d	11/16/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	5/2/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND
MW6s	11/16/12	ND	ND	ND	ND	ND	ND	ND	ND	0.88	--
	5/2/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	27.4
MW6m	11/16/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	5/2/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	24.7
MW6d	11/16/12	ND	ND	ND	ND	ND	ND	ND	ND	ND	--
	5/2/13	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND

DL – detection limit, ND = Not Detected at DL, sec-BBen – sec-Butylbenzene, EthylBen – Ethylbenzene, IPB – Isopropylbenzene, 4 IPT – 4-Isopropyltoluene, n PBen – n-Propylbenzene, 1,2,4-Trimethylbenzene, 1,1,1 Trichloroethane







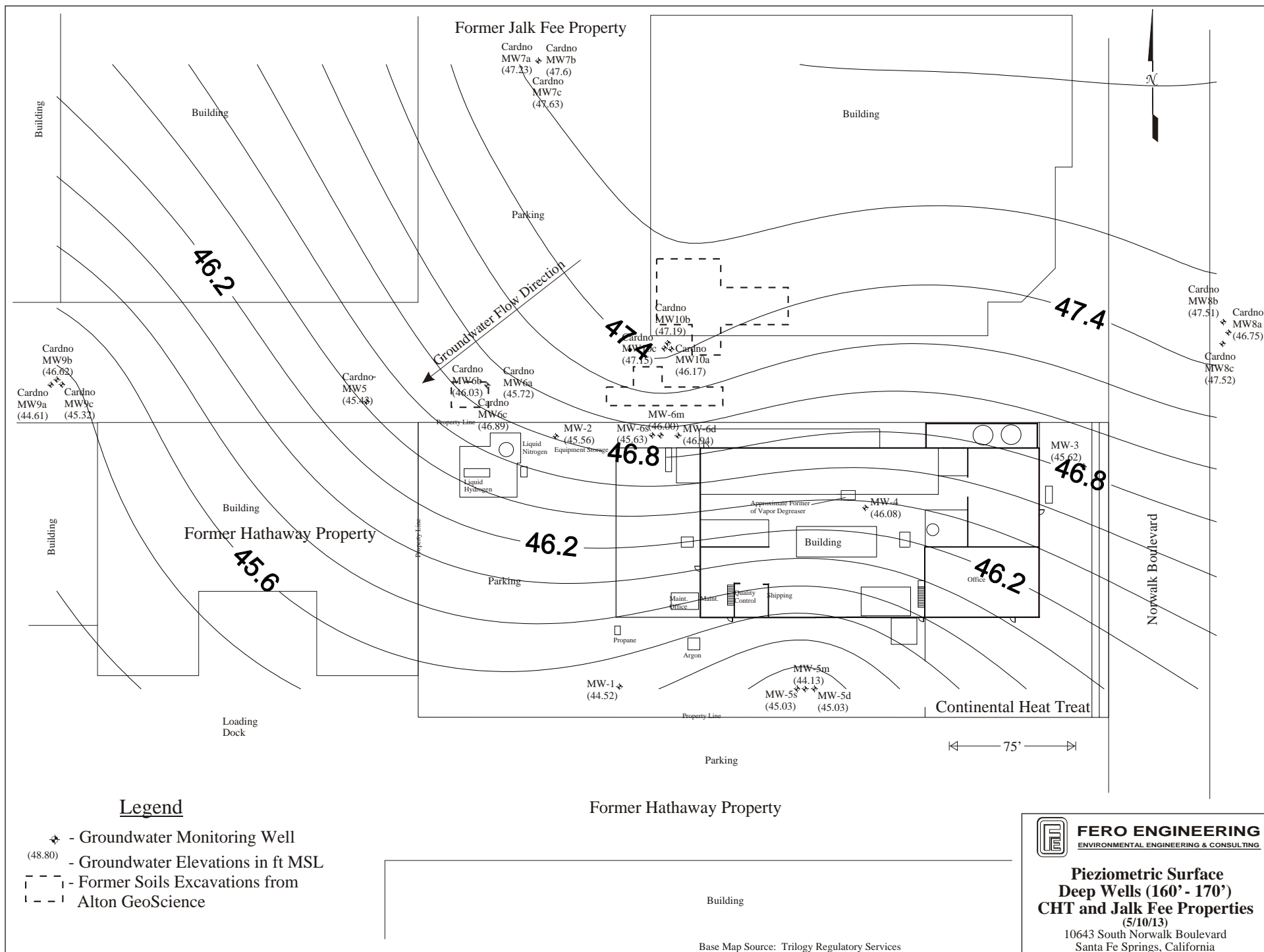
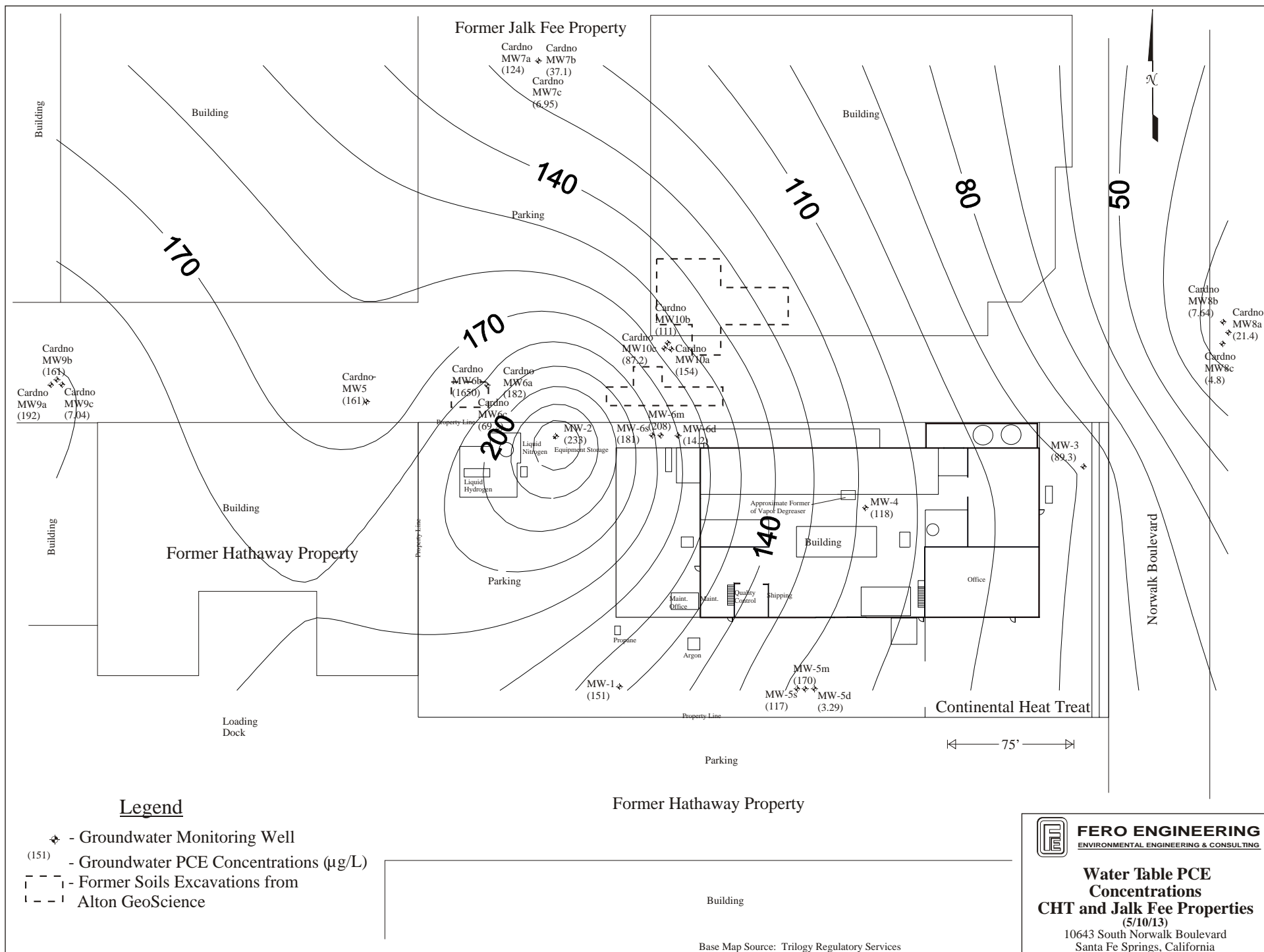
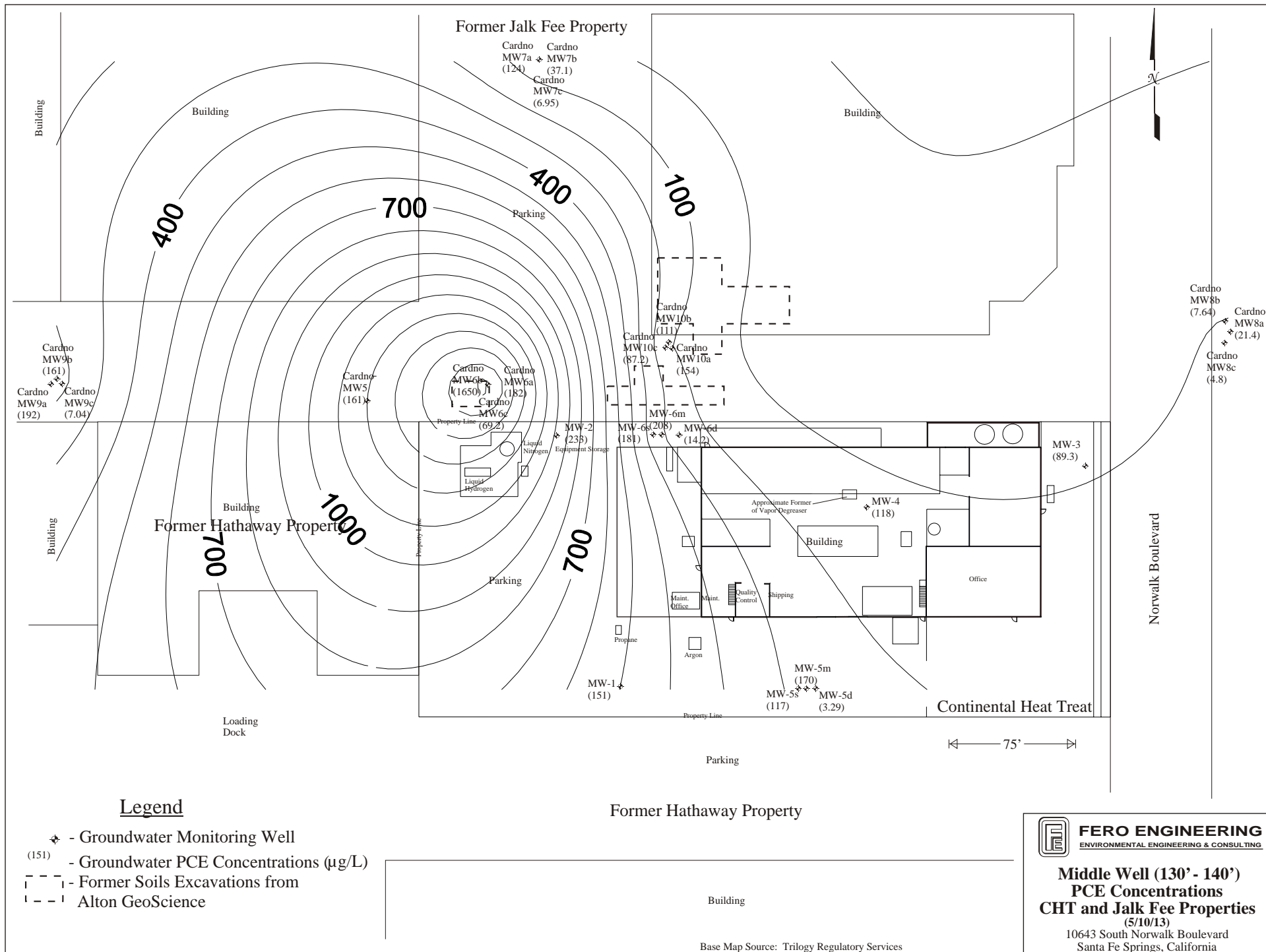


Figure 3





[758midwellPCE513]

Figure 5

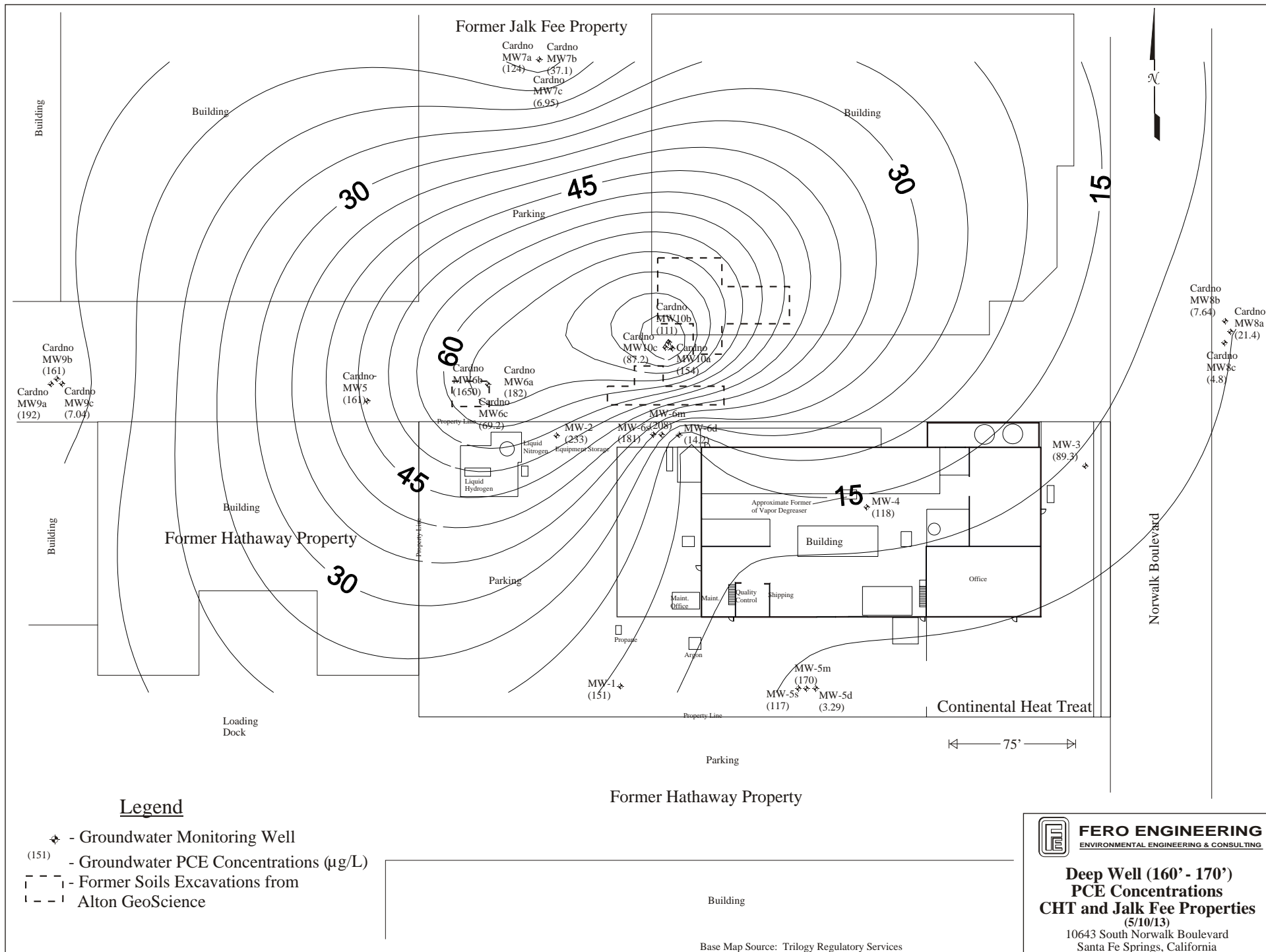
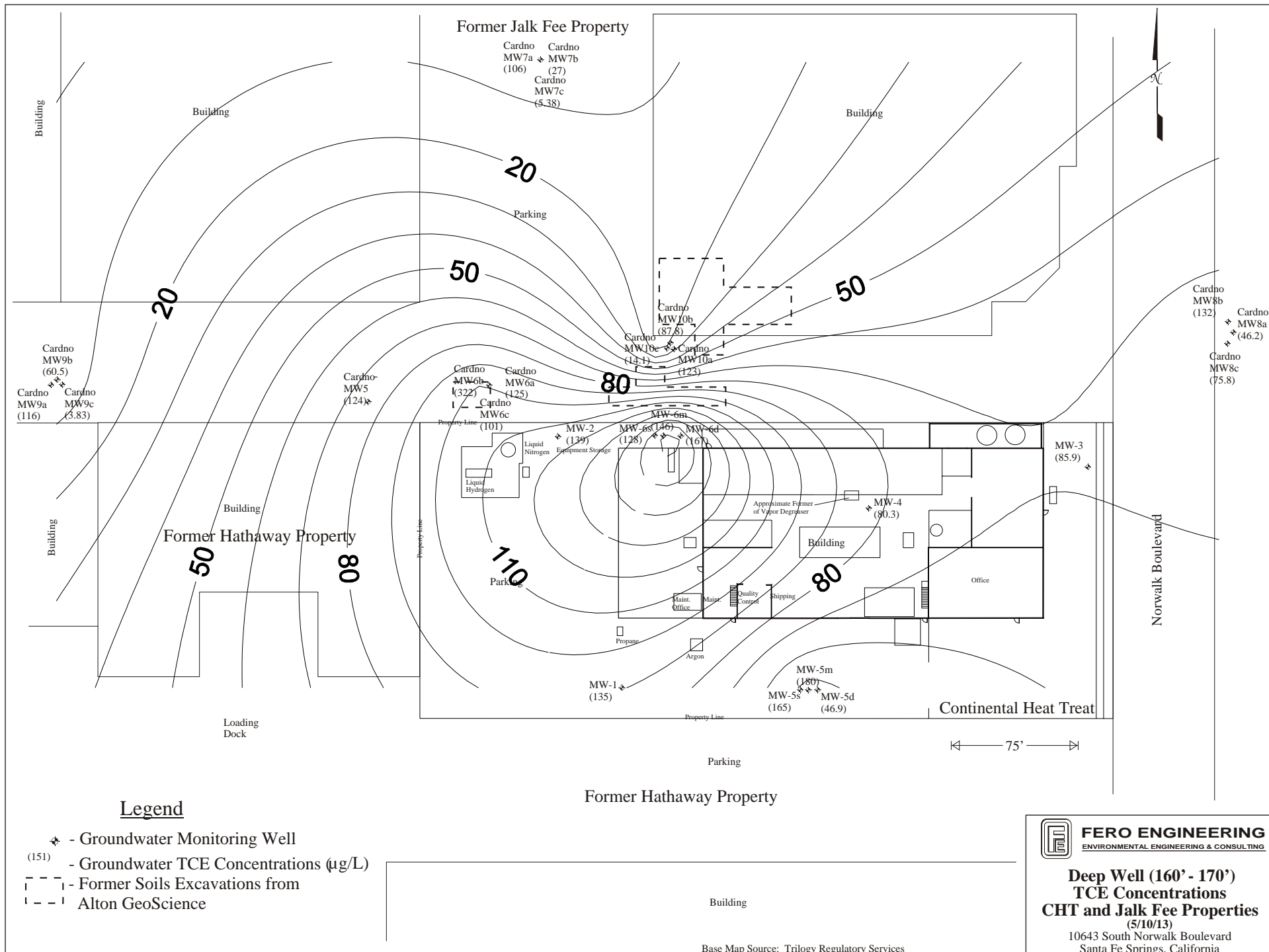




Figure 7







ATTACHMENT A

Well Purge Reports

<b>Groundwater Well Monitoring Data</b>
---

**Site:** Continental Heat Treating

**Job Number:** 12-0758

**Well I.D.:** MW1

**Date:** 5/2/13

**DTGW:** 92.56'

**Time Sampled:** 2:27 pm

**Purge Data**

<u>Volume (gal.)</u>	<u>Temp (F)</u>	<u>pH</u>	<u>Conductance (µmho)</u>
5	80.1	6.76	1503
10	79.8	6.69	1509
15	79.3	6.67	1509
20	79.1	6.67	1491

<b>Groundwater Well Monitoring Data</b>
---

**Site:** Continental Heat Treating

**Job Number:** 12-0758

**Well I.D.:** MW2

**Date:** 5/2/13

**DTGW:** 92.48'

**Time Sampled:** 3:42 pm

**Purge Data**

<u>Volume (gal.)</u>	<u>Temp (F)</u>	<u>pH</u>	<u>Conductance (µmho)</u>
5	78.8	6.64	1902
10	76.8	6.63	1885
15	76.8	6.64	1923
20	76.5	6.64	1870

<b>Groundwater Well Monitoring Data</b>
---

<b>Site:</b>	Continental Heat Treating	<b>Job Number:</b>	12-0758
<b>Well I.D.:</b>	MW3	<b>Date:</b>	5/2/13
<b>DTGW:</b>	91.41'	<b>Time Sampled:</b>	3:00 pm

**Purge Data**

<u>Volume (gal.)</u>	<u>Temp (F)</u>	<u>pH</u>	<u>Conductance (µmho)</u>
5	80.5	6.51	1622
10	78.7	6.63	1578
15	77.7	6.58	1567
20	76.4	6.62	1564

<b>Groundwater Well Monitoring Data</b>
---

<b>Site:</b>	Continental Heat Treating	<b>Job Number:</b>	12-0758
<b>Well I.D.:</b>	MW5s	<b>Date:</b>	5/2/13
<b>DTGW:</b>	92.46'	<b>Time Sampled:</b>	2:00 pm

**Purge Data**

<u>Volume (gal.)</u>	<u>Temp (F)</u>	<u>pH</u>	<u>Conductance (µmho)</u>
5	78.7	6.63	1521
10	78.8	6.63	1588
15	78.9	6.62	1579
20	78.6	6.63	1563
25	78.6	6.63	1565

<b>Groundwater Well Monitoring Data</b>
---

<b>Site:</b>	Continental Heat Treating	<b>Job Number:</b>	12-0758
<b>Well I.D.:</b>	MW5m	<b>Date:</b>	5/2/13
<b>DTGW:</b>	93.24'	<b>Time Sampled:</b>	1:30 pm

**Purge Data**

<u>Volume (gal.)</u>	<u>Temp (F)</u>	<u>pH</u>	<u>Conductance (µmho)</u>
5	79.6	6.95	1367
10	77.0	6.93	1366
15	77.3	6.93	1359
20	78.4	6.94	1387
25	77.2	6.95	1358
30	77.3	6.95	1398



<b>Groundwater Well Monitoring Data</b>
---

<b>Site:</b>	Continental Heat Treating	<b>Job Number:</b>	12-0758
<b>Well I.D.:</b>	MW5d	<b>Date:</b>	5/2/13
<b>DTGW:</b>	92.51'	<b>Time Sampled:</b>	1:05 pm

**Purge Data**

<u>Volume (gal.)</u>	<u>Temp (F)</u>	<u>pH</u>	<u>Conductance (µmho)</u>
5	81.9	7.10	958
10	80.2	7.10	935
15	78.3	7.12	905
20	78.2	7.12	917
25	80.7	7.13	932
30	80.0	7.14	939
35	79.5	7.12	935
40	79.0	7.14	935

<b>Groundwater Well Monitoring Data</b>
---

**Site:** Continental Heat Treating

**Job Number:** 12-0758

**Well I.D.:** MW6s

**Date:** 5/2/13

**DTGW:** 92.21'

**Time Sampled:** 5:10 pm

**Purge Data**

<u>Volume (gal.)</u>	<u>Temp (F)</u>	<u>pH</u>	<u>Conductance (µmho)</u>
5	75.5	6.64	1988
10	75.4	6.63	1940
15	75.4	6.59	1948
20	74.8	6.56	1969
25	74.4	6.56	1949

<b>Groundwater Well Monitoring Data</b>
---

<b>Site:</b>	Continental Heat Treating	<b>Job Number:</b>	12-0758
<b>Well I.D.:</b>	MW6m	<b>Date:</b>	5/2/13
<b>DTGW:</b>	91.95'	<b>Time Sampled:</b>	4:40 pm

**Purge Data**

<u>Volume (gal.)</u>	<u>Temp (F)</u>	<u>pH</u>	<u>Conductance (µmho)</u>
5	76.5	6.82	1839
10	75.9	6.83	1805
15	74.9	6.84	1766
20	74.7	6.84	1760
25	75.0	6.84	1770
30	74.9	6.85	1773

<b>Groundwater Well Monitoring Data</b>
---

<b>Site:</b>	Continental Heat Treating	<b>Job Number:</b>	12-0758
<b>Well I.D.:</b>	MW6d	<b>Date:</b>	5/2/13
<b>DTGW:</b>	91.07'	<b>Time Sampled:</b>	4:20 pm

**Purge Data**

<u>Volume (gal.)</u>	<u>Temp (F)</u>	<u>pH</u>	<u>Conductance (µmho)</u>
5	78.5	7.02	1467
10	76.0	7.04	1400
15	74.5	7.03	1373
20	73.9	7.04	1370
25	73.7	7.04	1370
30	73.2	7.07	1355
40	73.2	7.05	1346

ATTACHMENT B

Enviro-Chem Laboratory Report

**Enviro - Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91768 Tel (909) 590-5905 Fax (909) 590-5907

Date: May 10, 2013

Mr. John Petersen  
Fero Environmental Engineering, Inc.  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel (714) 256-2737 Fax (714) 256-1505

Project: Continental Heat Treating / 10-758  
Lab ID: 130503-1 to 10

Dear Mr. Petersen:

The analytical results for the water samples, received by our laboratory on May 3, 2013, are attached. All samples were received chilled, intact, and accompanying chain of custody record.

Enviro-Chem appreciates the opportunity to provide you and your company this and other services. Please do not hesitate to call us if you have any questions.

Sincerely,



Curtis Desilets  
Vice President/Program Manager



Andy Wang  
Laboratory Manager

LABORATORY REPORT FORM

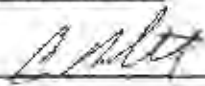
LABORATORY NAME: ENVIRO-CHEM, INC.

ADDRESS: 1214 E. LEXINGTON AVE., POMONA, CA 91766

LABORATORY CERTIFICATION

(ELAP) No.: 1555 EXPIRATION DATE: 06/30/2013

LABORATORY DIRECTOR'S NAME: CURTIS DESILETS

LABORATORY'S DIRECTOR SIGNATURE: 

CLIENT: **Fero Environmental Engineering, Inc.**  
**431 W. Lambert Road, Suite 305**  
**Brea, CA 92821**  
**Tel (714) 256-2737 Fax (714) 256-1505**

PROJECT: Continental Heat Treating / 10-758

ANALYTICAL METHODS: EPA 5030B/8260B (VOCs)

SAMPLING DATE(S): 05/02/13 DATE RECEIVED: 05/03/13

DATE REPORTED: 05/10/13 SAMPLE MATRIX: WATER

EXTRACTION METHOD: SEE ATTACHMENTS

EXTRACTION MATERIAL: PER THE METHODS

CHAIN OF CUSTODY RECEIVED: (YES) NO

---- SAMPLE HEADSPACE DESCRIPTION (%): 0 %

---- SAMPLE CONTAINER MATERIAL: 40 ML VOA VIALS (2 each)

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
LOS ANGELES REGION

LABORATORY REPORT FORM (COVER PAGE 2)

<u>ORGANIC ANALYSES</u>	# OF SAMPLES	# OF SAMPLES SUBCONTRACTED
-------------------------	--------------	-------------------------------

10	0
----	---

SAMPLE CONDITION: CHILLED, INTACT, % HEADSPACE: 0%

<u>INORGANIC ANALYSES</u>	# OF SAMPLES	# OF SAMPLES SUBCONTRACTED
---------------------------	--------------	-------------------------------

0	0
---	---

SAMPLE CONDITION:

<u>MICROBIOLOGICAL ANALYSES</u>	# OF SAMPLES	# OF SAMPLES SUBCONTRACTED
---------------------------------	--------------	-------------------------------

0	0
---	---

SAMPLE CONDITION:

<u>OTHER TYPES OF ANALYSES</u>	# OF SAMPLES	# OF SAMPLES SUBCONTRACTED
--------------------------------	--------------	-------------------------------

0	0
---	---

SAMPLE CONDITION:



## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L(PPB)  
 PAGE: 1 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: **Fero Environmental Engineering, Inc.**  
**431 W. Lambert Road, Suite 305**  
**Brea, CA 92821**  
**Tel(714)256-2737 Fax(714)256-1505**

DATE SAMPLED: 05/02/13DATE RECEIVED: 05/03/13

DATE ANALYZED	05/06/13		
DATE EXTRACTED	05/06/13		
LAB SAMPLE I.D.	130503-1		
CLIENT SAMPLE I.D.	MW1		
EXTRACTION SOLVENT	HELIUM GAS/WATER		
EXTRACTION METHOD	EPA 5030B		
DILUTION FACTOR (DF)	NONE (15 MLs PURGED)		
COMPOUND	CRDL	MB	RESULT
ACETONE	2.0	ND	ND
BENZENE	0.5	ND	ND
BROMOBENZENE	0.5	ND	ND
BROMOCHLOROMETHANE	0.5	ND	ND
BROMODICHLOROMETHANE	0.5	ND	ND
BROMOFORM	0.5	ND	ND
BROMOMETHANE	0.5	ND	ND
2-BUTANONE (MEK)	2.0	ND	ND
N-BUTYLBENZENE	0.5	ND	ND
SEC-BUTYLBENZENE	0.5	ND	ND
TERT-BUTYLBENZENE	0.5	ND	ND
CARBON DISULFIDE	2.0	ND	ND
CARBON TETRACHLORIDE	0.5	ND	ND
CHLOROBENZENE	0.5	ND	ND
CHLOROETHANE	0.5	ND	ND
CHLOROFORM	0.5	ND	5.45
CHLOROMETHANE	0.5	ND	ND
2-CHLOROTOLUENE	0.5	ND	ND
4-CHLOROTOLUENE	0.5	ND	ND
DIBROMOCHLOROMETHANE	0.5	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.5	ND	ND
1,2-DIBROMOETHANE	0.5	ND	ND
DIBROMOMETHANE	0.5	ND	ND
1,2-DICHLOROBENZENE	0.5	ND	ND
1,3-DICHLOROBENZENE	0.5	ND	ND
1,4-DICHLOROBENZENE	0.5	ND	ND

- CONTINUED -

## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: µG/L (PPB)  
 PAGE: 2 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13DATE RECEIVED: 05/03/13

DATE ANALYZED	05/06/13		
DATE EXTRACTED	05/06/13		
LAB SAMPLE I.D.	130503-1		
CLIENT SAMPLE I.D.	MW1		
EXTRACTION SOLVENT	HELIUM GAS/WATER		
EXTRACTION METHOD	EPA 5030B		
DILUTION FACTOR (DF)	NONE (15 Mls PURGED)		
COMPOUND	CRDL	MB	RESULT
DICHLORODIFLUOROMETHANE	0.5	ND	ND
1,1-DICHLOROETHANE	0.5	ND	18.5
CIS-1,2-DICHLOROETHENE	0.5	ND	85.3
TRANS-1,2-DICHLOROETHENE	0.5	ND	2.68
1,2-DICHLOROPROPANE	0.5	ND	ND
1,2-DICHLOROETHANE	0.5	ND	4.21
1,1-DICHLOROETHENE	0.5	ND	95.5
1,3-DICHLOROPROPANE	0.5	ND	ND
2,2-DICHLOROPROPANE	0.5	ND	ND
1,1-DICHLOROPROPENE	0.5	ND	ND
CIS-1,3-DICHLOROPROPENE	0.5	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.5	ND	ND
ETHYLBENZENE	0.5	ND	ND
2-HEXANONE	2.0	ND	ND
HEXACHLOROBUTADIENE	0.5	ND	ND
IODOMETHANE	0.5	ND	ND
ISOPROPYLBENZENE	0.5	ND	ND
4-ISOPROPYLTOLUENE	0.5	ND	ND
4-METHYL-2-PENTANONE (MIBK)	2.0	ND	ND
METHYL tert BUTYL ETHER	0.5	ND	ND
METHYLENE CHLORIDE	2.0	ND	ND
NAPHTHALENE	0.5	ND	ND
N-PROPYLBENZENE	0.5	ND	ND
STYRENE	0.5	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.5	ND	ND

CONTINUED



## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: UG/L (PPB)  
 PAGE: 3 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13DATE RECEIVED: 05/03/13


DATE ANALYZED	05/06/13		
DATE EXTRACTED	05/06/13		
LAB SAMPLE I.D.	130503-1		
CLIENT SAMPLE I.D.	MW1		
EXTRACTION SOLVENT	HELIUM GAS/WATER		
EXTRACTION METHOD	EPA 5030B		
DILUTION FACTOR (DF)	NONE (15 MLs PURGED)		
COMPOUND	CRDL	MB	RESULT
1,1,2,2-TETRACHLOROETHANE	0.5	ND	ND
TETRACHLOROETHENE (PCE)	0.5	ND	151
SOLVENT	0.5	ND	ND
1,2,3-TRICHLOROBENZENE	0.5	ND	ND
1,2,4-TRICHLOROBENZENE	0.5	ND	ND
1,1,1-TRICHLOROMETHANE	0.5	ND	ND
1,1,2-TRICHLOROETHANE	0.5	ND	ND
TRICHLOROETHENE (TCE)	0.5	ND	135
TRICHLOROPOLYCHLOROMETHANE	0.5	ND	7.78
FREON-113	0.5	ND	16.1
1,2,3-TRICHLOROPROPANE	0.5	ND	ND
1,2,4-TRIMETHYLBENZENE	0.5	ND	ND
1,3,5-TRIMETHYLBENZENE	0.5	ND	ND
VINYL CHLORIDE	0.5	ND	12.3
M, P-XYLENE	1.0	ND	ND
O-XYLENE	0.5	ND	ND

UG/L = MICROGRAM PER LITER = PPB

CRDL = CONTRACT REQUIRED DETECTION LIMIT

MB = METHOD BLANK

ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: 

**Enviro - Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

**LABORATORY REPORT**

METHOD: EPA 8260B      MATRIX: WATER      REPORTING UNIT:  $\mu\text{G/L (PPB)}$   
 PAGE: 1 OF 3 PAGES      PROJECT: Continental Heat Treating / 10-758

CUSTOMER:      Fero Environmental Engineering, Inc.  
 431 W. Lambert Road, Suite 305  
 Brea, CA 92821  
 Tel (714) 256-2737      Fax (714) 256-1505

DATE SAMPLED: 05/02/13

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DATE ANALYZED	05/06/13
DATE EXTRACTED	05/06/13
LAB SAMPLE I.D.	130503-2
CLIENT SAMPLE I.D.	MW2
EXTRACTION SOLVENT	HELIUM GAS/WATER
EXTRACTION METHOD	EPA 5030B
DILUTION FACTOR (DF)	5

COMPOUND	CRDL	MB	RESULT
ACETONE	2.0	ND	ND
BENZENE	0.5	ND	ND
BROMOBENZENE	0.5	ND	ND
BROMOCHLOROMETHANE	0.5	ND	ND
BROMODICHLOROMETHANE	0.5	ND	ND
BROMOFORM	0.5	ND	ND
BROMOMETHANE	0.5	ND	ND
2-BUTANONE (MEK)	2.0	ND	ND
N-BUTYLBENZENE	0.5	ND	ND
SEC-BUTYLBENZENE	0.5	ND	ND
TERT-BUTYLBENZENE	0.5	ND	ND
CARBON DISULFIDE	2.0	ND	ND
CARBON TETRACHLORIDE	0.5	ND	ND
CHLOROBENZENE	0.5	ND	ND
CHLOROETHANE	0.5	ND	ND
CHLOROFORM	0.5	ND	10.9
CHLOROMETHANE	0.5	ND	ND
2-CHLOROTOLUENE	0.5	ND	ND
4-CHLOROTOLUENE	0.5	ND	ND
DIBROMOCHLOROMETHANE	0.5	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.5	ND	ND
1,2-DIBROMOETHANE	0.5	ND	ND
DIBROMOMETHANE	0.5	ND	ND
1,2-DICHLOROBENZENE	0.5	ND	ND
1,3-DICHLOROBENZENE	0.5	ND	ND
1,4-DICHLOROBENZENE	0.5	ND	ND

- CONTINUED -



**Enviro - Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91768 Tel (909) 590-5905 Fax (800) 590-5907

**LABORATORY REPORT**

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: UG/L(PPB)  
 PAGE: 2 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 05/02/13

DATE RECEIVED: 05/03/13

DATE ANALYZED			05/06/13
DATE EXTRACTED			05/06/13
LAB SAMPLE I.D.			130503 2
CLIENT SAMPLE T.D.			MW2
EXTRACTION SOLVENT			HELIUM GAS/WATER
EXTRACTION METHOD			EPA 5030B
DILUTION FACTOR (DF)			5
COMPOUND	CRDL	MB	RESULT
DICHLORODIFLUOROMETHANE	0.5	ND	ND
1,1-DICHLOROETHANE	0.5	ND	17.1
CIS-1,2-DICHLOROSTYRENE	0.5	ND	66.6
TRANS-1,2-DICHLOROETHENE	0.5	ND	ND
1,2-DICHLOROPROPANE	0.5	ND	ND
1,2-DICHLOROMETHANE	0.5	ND	3.75
1,1-DICHLOROETHENE	0.5	ND	87.0
1,3-DICHLOROPROPANE	0.5	ND	ND
2,2-DICHLOROPROPANE	0.5	ND	ND
1,1-DICHLOROPROPENE	0.5	ND	ND
CIS-1,3-DICHLOROPROPENE	0.5	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.5	ND	ND
ETHYLBENZENE	0.5	ND	ND
2-HEXANONE	2.0	ND	ND
HEXACHLOROBUTADIENE	0.5	ND	ND
IODOMETHANE	0.5	ND	ND
ISOPROPYLBENZENE	0.5	ND	ND
4-ISOPROPYLTOLUENE	0.5	ND	ND
4-METHYL-2-PENTANONE (MIBK)	2.0	ND	ND
METHYL tert-BUTYL ETHER	0.5	ND	ND
METHYLENE CHLORIDE	2.0	ND	ND
NAPHTHALENE	0.5	ND	ND
N-PROPYLBENZENE	0.5	ND	ND
STYRENE	0.5	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.5	ND	ND

CONTINUED -

## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: UG/L (PPB)  
PAGE: 3 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758


CUSTOMER: Fero Environmental Engineering, Inc.  
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DATE SAMPLED: 05/02/13

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DATE ANALYZED	05/06/13		
DATE EXTRACTED	05/06/13		
LAB SAMPLE I.D.	130503 2		
CLIENT SAMPLE I.D.	MW2		
EXTRACTION SOLVENT	HELIUM GAS/WATER		
EXTRACTION METHOD	EPA 5030B		
DILUTION FACTOR (DF)	5		
COMPOUND	CRDL	MB	RESULT
1,1,2,2-TETRACHLOROETHANE	0.5	ND	ND
TETRACHLOROETHENE (PCE)	0.5	ND	233
TOLUENE	0.5	ND	ND
1,2,3-TRICHLOROBENZENE	0.5	ND	ND
1,2,4-TRICHLOROBENZENE	0.5	ND	ND
1,1,1-TRICHLOROETHANE	0.5	ND	ND
1,1,2-TRICHLOROETHANE	0.5	ND	ND
TRICHLOROETHENE (TCE)	0.5	ND	139
TRICHLOROFUOROMETHANE	0.5	ND	24.4
FREON-113	0.5	ND	38.6
1,2,3-TRICHLOROPROPANE	0.5	ND	ND
1,2,4-TRIMETHYLBENZENE	0.5	ND	ND
1,3,5-TRIMETHYLBENZENE	0.5	ND	ND
VINYL CHLORIDE	0.5	ND	ND
M,P-XYLENE	1.0	ND	ND
O-XYLENE	0.5	ND	ND

UG/L = MICROGRAM PER LITER = PPB  
CRDL = CONTRACT REQUIRED DETECTION LIMIT  
MB = METHOD BLANK  
ND = NON-DETECTED OR BELOW THE CRDL

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## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: ug/L (PPB)  
PAGE: 1 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: **Fero Environmental Engineering, Inc.**  
431 W. Lambert Road, Suite 305  
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DATE SAMPLED: 05/02/13

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DATE ANALYZED	05/06/13		
DATE EXTRACTED	05/06/13		
LAB SAMPLE I.D.	130503-3		
CLIENT SAMPLE I.D.	MW3		
EXTRACTION SOLVENT	HELIUM GAS/WATER		
EXTRACTION METHOD	EPA 5030B		
DILUTION FACTOR (DF)	NONE (15 MLs PURGED)		
COMPOUND	CRDL	MB	RESULT
ACETONE	2.0	ND	ND
BENZENE	0.5	ND	7.05
BROMOBENZENE	0.5	ND	ND
BROMOCHLOROMETHANE	0.5	ND	ND
BROMODICHLOROMETHANE	0.5	ND	ND
BROMOFORM	0.5	ND	ND
BROMOMETHANE	0.5	ND	ND
2-BUTANONE (MEK)	2.0	ND	ND
N-BUTYLBENZENE	0.5	ND	ND
SEC-BUTYLBENZENE	0.5	ND	ND
tert-BUTYLBENZENE	0.5	ND	ND
CARBON DISULFIDE	2.0	ND	ND
CARBON TETRACHLORIDE	0.5	ND	ND
CHLOROBENZENE	0.5	ND	ND
CHLOROETHANE	0.5	ND	ND
CHLOROFORM	0.5	ND	2.70
CHLOROMETHANE	0.5	ND	ND
2-CHLOROTOLUENE	0.5	ND	ND
4-CHLOROTOLUENE	0.5	ND	ND
DIBROMOCHLOROMETHANE	0.5	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.5	ND	ND
1,2-DIBROMOETHANE	0.5	ND	ND
DIBROMOMETHANE	0.5	ND	ND
1,2-DICHLOROBENZENE	0.5	ND	ND
1,3-DICHLOROBENZENE	0.5	ND	ND
1,4-DICHLOROBENZENE	0.5	ND	ND

- CONTINUED -

**Enviro - Chem, Inc.**

1214 E Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

**LABORATORY REPORT**

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L (PPB)  
PAGE: 2 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: **Fero Environmental Engineering, Inc.,**  
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DATE SAMPLED: 05/02/13

DATE RECEIVED: 05/03/13

DATE ANALYZED			05/06/13
DATE EXTRACTED			05/06/13
LAB SAMPLE I.D.			130503-3
CLIENT SAMPLE I.D.			MW3
EXTRACTION SOLVENT			HELIUM GAS/WATER
EXTRACTION METHOD			EPA 5030B
DILUTION FACTOR (DF)			NONE (15 MLs PURGED)
COMPOUND	CRDL	MB	RESULT
DICHLORODIFLUOROMETHANE	0.5	ND	ND
1,1-DICHLOROETHANE	0.5	ND	9.26
CIS-1,2-DICHLOROETHENE	0.5	ND	59.6
TRANS-1,2-DICHLOROETHENE	0.5	ND	16.8
1,2-DICHLOROPROPANE	0.5	ND	ND
1,2-DICHLOROETHANE	0.5	ND	ND
1,1-DICHLOROETHYLENE	0.5	ND	70.7
1,3-DICHLOROPROPANE	0.5	ND	ND
2,2-DICHLOROPROPANE	0.5	ND	ND
1,1-DICHLOROPROPENE	0.5	ND	ND
CIS-1,3-DICHLOROPROPENE	0.5	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.5	ND	ND
ETHYLBENZENE	0.5	ND	ND
2-HEXANONE	2.0	ND	ND
HEXACHLOROBUTADIENE	0.5	ND	ND
IODOMETHANE	0.5	ND	ND
ISOPROPYLBENZENE	0.5	ND	ND
4-ISOPROPYLTOLUENE	0.5	ND	ND
4-METHYL-2-PENTANONE (MIBK)	2.0	ND	ND
METHYL tert-BUTYL ETHER	0.5	ND	ND
METHYLENE CHLORIDE	2.0	ND	ND
NAPHTHALENE	0.5	ND	ND
N-PROPYLBENZENE	0.5	ND	ND
STYRENE	0.5	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.5	ND	ND

- CONTINUED -



## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT:  $\mu\text{G/L}$  (PPB)  
PAGE: 3 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
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DATE SAMPLED: 05/02/13

DATE RECEIVED: 05/03/13

DATE ANALYZED	05/06/13		
DATE EXTRACTED	05/06/13		
LAB SAMPLE I.D.	130503-3		
CLIENT SAMPLE I.D.	MW3		
EXTRACTION SOLVENT	HELIUM GAS/WATER		
EXTRACTION METHOD	EPA 5030B		
DILUTION FACTOR (DF)	NONE (15 MLs PURGED)		
COMPOUND	CRDL	MB	RESULT
1,1,2,2-TETRACHLOROETHANE	0.5	ND	ND
TETRACHLOROETHENE (PCE)	0.5	ND	89.3
TOLUENE	0.5	ND	ND
1,2,3-TRICHLOROBENZENE	0.5	ND	ND
1,2,4-TRICHLOROBENZENE	0.5	ND	ND
1,1,1-TRICHLOROETHANE	0.5	ND	ND
1,1,2-TRICHLOROETHANE	0.5	ND	ND
TRICHLOROETHENE (TCE)	0.5	ND	85.9
TRICHLOROFLUOROMETHANE	0.5	ND	2.50
FREON-113	0.5	ND	13.1
1,2,3-TRICHLOROPROPANE	0.5	ND	ND
1,2,4-TRIMETHYLBENZENE	0.5	ND	ND
1,3,5-TRIMETHYLBENZENE	0.5	ND	ND
VINYL CHLORIDE	0.5	ND	6.18
M,P-XYLENE	1.0	ND	ND
O-XYLENE	0.5	ND	ND

$\mu\text{G/L}$  = MICROGRAM PER LITER = PPB

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MB = METHOD BLANK

ND = NON DETECTED OR BELOW THE CRDL

DATA APPROVED BY: 

## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: UG/L (PPB)  
PAGE: 1 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
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DATE SAMPLED: 05/02/13

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DATE ANALYZED 05/07/13  
DATE EXTRACTED 05/07/13  
LAB SAMPLE I.D. 130503-4  
CLIENT SAMPLE I.D. MW4  
EXTRACTION SOLVENT HELIUM GAS/WATER  
EXTRACTION METHOD EPA 5030B  
DILUTION FACTOR (DF) 5

COMPOUND	CRDL	MB	RESULT
ACETONE	2.0	ND	ND
BENZENE	0.5	ND	ND
BROMOBENZENE	0.5	ND	ND
BROMOCHLOROMETHANE	0.5	ND	ND
BROMODICHLOROMETHANE	0.5	ND	ND
BROMOFORM	0.5	ND	ND
BROMOMETHANE	0.5	ND	ND
2-BUTANONE (MEK)	2.0	ND	ND
N-BUTYLBENZENE	0.5	ND	ND
SEC-BUTYLBENZENE	0.5	ND	ND
TERT-BUTYLBENZENE	0.5	ND	ND
CARBON DISULFIDE	2.0	ND	ND
CARBON TETRACHLORIDE	0.5	ND	ND
CHLOROBENZENE	0.5	ND	ND
CHLOROETHANE	0.5	ND	ND
CHLOROFORM	0.5	ND	4.67
CHLOROMETHANE	0.5	ND	ND
2-CHLOROTOLUENE	0.5	ND	ND
4-CHLOROTOLUENE	0.5	ND	ND
DIBROMOCHLOROMETHANE	0.5	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.5	ND	ND
1,2-DIBROMOETHANE	0.5	ND	ND
DIBROMOMETHANE	0.5	ND	ND
1,2-DICHLOROBENZENE	0.5	ND	ND
1,3-DICHLOROBENZENE	0.5	ND	ND
1,4-DICHLOROBENZENE	0.5	ND	ND

- CONTINUED -



## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: µG/L (PBB)  
PAGE: 2 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
431 W. Lambert Road, Suite 305  
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Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13

DATE RECEIVED: 05/03/13

DATE ANALYZED	05/07/13		
DATE EXTRACTED	05/07/13		
LAB SAMPLE I.D.	130503-4		
CLIENT SAMPLE I.D.	MW4		
EXTRACTION SOLVENT	HELIUM GAS/WATER		
EXTRACTION METHOD	EPA 5030B		
DILUTION FACTOR (DF)	5		
COMPOUND	CRDL	MB	RESULT
DICHLORODIFLUOROMETHANE	0.5	ND	ND
1,1-DICHLOROETHANE	0.5	ND	10.7
CIS-1,2-DICHLOROETHENE	0.5	ND	215
TRANS-1,2-DICHLOROETHENE	0.5	ND	8.95
1,2-DICHLOROPROPANE	0.5	ND	ND
1,2-DICHLOROETHANE	0.5	ND	ND
1,1-DICHLOROETHENE	0.5	ND	56.3
1,3-DICHLOROPROPANE	0.5	ND	ND
2,2-DICHLOROPROPANE	0.5	ND	ND
1,1-DICHLOROPROPENE	0.5	ND	ND
CIS-1,3-DICHLOROPROPENE	0.5	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.5	ND	ND
ETHYLBENZENE	0.5	ND	ND
2-HEXANONE	2.0	ND	ND
HEXACHLOROBUTADIENE	0.5	ND	ND
IODOMETHANE	0.5	ND	ND
ISOPROPYLBENZENE	0.5	ND	ND
4-ISOPROPYLTOLUENE	0.5	ND	ND
4-METHYL-2-PENTANONE (MIBK)	2.0	ND	ND
METHYL tert-BUTYL ETHER	0.5	ND	ND
METHYLENE CHLORIDE	2.0	ND	ND
NAPHTHALENE	0.5	ND	ND
N-PROPYLBENZENE	0.5	ND	ND
STYRENE	0.5	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.5	ND	ND

- CONTINUED -

## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: ug/L (PPB)  
 PAGE: 3 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
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DATE SAMPLED: 05/02/13DATE RECEIVED: 05/03/13

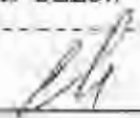
DATE ANALYSIS	05/07/13		
DATE EXTRACTED	05/07/13		
LAB SAMPLE I.D.	130503-4		
CLIENT SAMPLE I.D.	MW4		
EXTRACTION SOLVENT	HELIUM GAS/WATER		
EXTRACTION METHOD	EPA 5030B		
DILUTION FACTOR (DF)	5		
COMPOUND	CRDL	MB	RESULT
1,1,2,2-TETRACHLOROETHANE	0.5	ND	ND
TETRACHLOROETHENE (PCE)	0.5	ND	118
TOLUENE	0.5	ND	ND
1,2,3-TRICHLOROBENZENE	0.5	ND	ND
1,2,4-TRICHLOROBENZENE	0.5	ND	ND
1,1,1-TRICHLOROETHANE	0.5	ND	ND
1,1,2-TRICHLOROETHANE	0.5	ND	ND
TRICHLOROETHENE (TCE)	0.5	ND	80.3
TRICHLOROFLUOROMETHANE	0.5	ND	2.89
PERC-113	0.5	ND	11.0
1,2,3-TRICHLOROPROPANE	0.5	ND	ND
1,2,4-TRIMETHYLBENZENE	0.5	ND	ND
1,3,5-TRIMETHYLBENZENE	0.5	ND	ND
VINYL CHLORIDE	0.5	ND	45.8
M,P-XYLENE	1.0	ND	ND
O-XYLENE	0.5	ND	ND

ug/L = MICROGRAM PER LITER = PPB

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MB = METHOD BLANK

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## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: ug/L (PPB)  
PAGE: 1 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Faro Environmental Engineering, Inc.,  
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DATE SAMPLED: 05/02/13

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DATE ANALYZED 05/06/13  
DATE EXTRACTED 05/06/13  
LAB SAMPLE I.D. 130503-5  
CLIENT SAMPLE I.D. MW5s  
EXTRACTION SOLVENT HELIUM GAS/WATER  
EXTRACTION METHOD EPA 5030B  
DILUTION FACTOR (DF) NONE (0.5 MLs PURGED)

COMPOUND	CRDL	MB	RESULT
ACETONE	2.0	ND	ND
BENZENE	0.5	ND	ND
BROMOBENZENE	0.5	ND	ND
BROMOCHLOROMETHANE	0.5	ND	ND
BROMODICHLOROMETHANE	0.5	ND	ND
BROMOFORM	0.5	ND	ND
BROMOMETHANE	0.5	ND	ND
2-BUTANONE (MEK)	2.0	ND	ND
N-BUTYLBENZENE	0.5	ND	ND
SEC-BUTYLBENZENE	0.5	ND	ND
TERT-BUTYLBENZENE	0.5	ND	ND
CARBON DISULFIDE	2.0	ND	ND
CARBON TETRACHLORIDE	0.5	ND	ND
CHLOROBENZENE	0.5	ND	ND
CHLOROETHANE	0.5	ND	ND
CHLOROFORM	0.5	ND	4.02
CHLOROMETHANE	0.5	ND	ND
2-CHLOROTOLUENE	0.5	ND	ND
4-CHLOROTOLUENE	0.5	ND	ND
DIBROMOCHLOROMETHANE	0.5	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.5	ND	ND
1,2-DIBROMOETHANE	0.5	ND	ND
DIBROMOMETHANE	0.5	ND	ND
1,2-DICHLOROETHANE	0.5	ND	ND
1,3-DICHLOROBENZENE	0.5	ND	ND
1,4-DICHLOROBENZENE	0.5	ND	ND

- CONTINUED -

## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: ug/L(PBB)  
PAGE: 2 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13

DATE RECEIVED: 05/03/13

DATE ANALYZED	05/06/13		
DATE EXTRACTED	05/06/13		
LAB SAMPLE I.D.	130503-5		
CLIENT SAMPLE I.D.	MW5a		
EXTRACTION SOLVENT	HELIUM GAS/WATER		
EXTRACTION METHOD	EPA 5030B		
DILUTION FACTOR (DF)	NONE (15 MLs PURGED)		
COMPOUND	CRDL	MB	RESULT
DICHLORODIFLUOROMETHANE	0.5	ND	ND
1,1-DICHLOROETHANE	0.5	ND	16.0
CIS-1,2-DICHLOROETHENE	0.5	ND	77.3
TRANS-1,2-DICHLOROETHENE	0.5	ND	10.2
1,2-DICHLOROPROPANE	0.5	ND	ND
1,2-DICHLOROETHANE	0.5	ND	ND
1,1-DICHLOROETHENE	0.5	ND	116
1,3-DICHLOROPROPANE	0.5	ND	ND
2,2-DICHLOROPROPANE	0.5	ND	ND
1,1-DICHLOROPROPENE	0.5	ND	ND
CIS-1,3-DICHLOROPROPENE	0.5	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.5	ND	ND
ETHYLBENZENE	0.5	ND	ND
2-HEXANONE	2.0	ND	ND
1,1,1-TRICHLOROBUTADIENE	0.5	ND	ND
IODOMETHANE	0.5	ND	ND
ISOPROPYLBENZENE	0.5	ND	ND
4-ISOPROPYLTOLUENE	0.5	ND	ND
4-METHYL-2-PENTANONE (MIBK)	2.0	ND	ND
METHYL tert-BUTYL ETHER	0.5	ND	ND
METHYLENE CHLORIDE	2.0	ND	ND
NAPHTHALENE	0.5	ND	ND
N-PROPYLBENZENE	0.5	ND	ND
STYRENE	0.5	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.5	ND	ND

- CONTINUED -



## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L (PPB)  
 PAGE: 3 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13DATE RECEIVED: 05/03/13


DATE ANALYZED	05/06/13		
DATE EXTRACTED	05/06/13		
LAB SAMPLE I.D.	130503-5		
CLIENT SAMPLE I.D.	MW5s		
EXTRACTION SOLVENT	HELIUM GAS/WATER		
EXTRACTION METHOD	EPA 5030B		
DILUTION FACTOR (DF)	NONE (15 MLs PURGED)		
COMPOUND	CRDL	MB	RESULT
1,1,2,2-TETRACHLOROETHANE	0.5	ND	ND
TETRACHLOROETHENE (PCE)	0.5	ND	117
TOLUENE	0.5	ND	ND
1,2,3-TRICHLOROBENZENE	0.5	ND	ND
1,2,4-TRICHLOROBENZENE	0.5	ND	ND
1,1,1-TRICHLOROETHANE	0.5	ND	ND
1,1,2-TRICHLOROETHANE	0.5	ND	ND
TRICHLOROETHENE (TCE)	0.5	ND	165
TRICHLOROFLUOROMETHANE	0.5	ND	10.2
PERON-113	0.5	ND	21.3
1,2,3-TRICHLOROPROPANE	0.5	ND	ND
1,2,4-TRIMETHYLBENZENE	0.5	ND	ND
1,3,5-TRIMETHYLBENZENE	0.5	ND	ND
VINYL CHLORIDE	0.5	ND	23.1
M,P-XYLENE	1.0	ND	ND
O-XYLENE	0.5	ND	ND

uG/L = MICROGRAM PER LITER = PPB

CRDL = CONTRACT REQUIRED DETECTION LIMIT

MB = METHOD BLANK

ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: 

**Enviro - Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

**LABORATORY REPORT**

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT:  $\mu\text{G/L (PPH)}$   
PAGE: 1 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13

DATE RECEIVED: 05/03/13

DATE ANALYZED 05/06/13  
DATE EXTRACTED 05/06/13  
LAB SAMPLE I.D. 130503-6  
CLIENT SAMPLE I.D. MW5m  
EXTRACTION SOLVENT HELIUM GAS/WATER  
EXTRACTION METHOD EPA 50309  
DILUTION FACTOR (DF) 5

COMPOUND	CRDL	MB	RESULT
ACETONE	2.0	ND	ND
BENZENE	0.5	ND	ND
BROMOBENZENE	0.5	ND	ND
BROMOCHLOROMETHANE	0.5	ND	ND
BROMODICHLOROMETHANE	0.5	ND	ND
BROMOFORM	0.5	ND	ND
BROMOMETHANE	0.5	ND	ND
2-BUTANONE (MEK)	2.0	ND	ND
N-BUTYLBENZENE	0.5	ND	ND
SEC-BUTYLBENZENE	0.5	ND	ND
TERT-BUTYLBENZENE	0.5	ND	ND
CARBON DISULFIDE	2.0	ND	ND
CARBON TETRACHLORIDE	0.5	ND	ND
CHLOROBENZENE	0.5	ND	ND
CHLOROETHANE	0.5	ND	ND
CHLOROFORM	0.5	ND	3.42
CHLOROMETHANE	0.5	ND	ND
2-CHLOROTOLUENE	0.5	ND	ND
4-CHLOROTOLUENE	0.5	ND	ND
DIBROMOCHLOROMETHANE	0.5	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.5	ND	ND
1,2-DIBROMOETHANE	0.5	ND	ND
DIBROMOMETHANE	0.5	ND	ND
1,2-DICHLOROBENZENE	0.5	ND	ND
1,3-DICHLOROBENZENE	0.5	ND	ND
1,4-DICHLOROBENZENE	0.5	ND	ND

- CONTINUED -



**Enviro - Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

**LABORATORY REPORT**

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L (PPB)  
 PAGE: 2 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: **Fero Environmental Engineering, Inc.**  
 431 W. Lambert Road, Suite 305  
 Brea, CA 92821  
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DATE SAMPLED: 05/02/13

DATE RECEIVED: 05/03/13

DATE ANALYZED			05/06/13
DATE EXTRACTED			05/06/13
LAB SAMPLE I.D.			130503-6
CLIENT SAMPLE I.D.			MW5m
EXTRACTION SOLVENT			HELIUM GAS/WATER
EXTRACTION METHOD			EPA 5030B
DILUTION FACTOR (DF)			5
COMPOUND	CRDL	MB	RESULT
DICHLORODIFLUOROMETHANE	0.5	ND	ND
1,1-DICHLOROETHANE	0.5	ND	15.9
CIS-1,2-DICHLOROETHENE	0.5	ND	38.3
TRANS-1,2-DICHLOROETHENE	0.5	ND	ND
1,2-DICHLOROPROPANE	0.5	ND	ND
1,2-DICHLOROETHANE	0.5	ND	3.30
1,1-DICHLOROETHENE	0.5	ND	153
1,3-DICHLOROPROPANE	0.5	ND	ND
2,2-DICHLOROPROPANE	0.5	ND	ND
1,3-DICHLOROPROPENE	0.5	ND	ND
CIS-1,3-DICHLOROPROPENE	0.5	ND	ND
TRANS 1,3-DICHLOROPROPENE	0.5	ND	ND
ETHYLBENZENE	0.5	ND	ND
2-HEXANONE	2.0	ND	ND
HEXACHLOROCYCLODIENE	0.5	ND	ND
IODOMETHANE	0.5	ND	ND
ISOPROPYLBENZENE	0.5	ND	ND
4-ISOPROPYLTOLUENE	0.5	ND	ND
4-METHYL-2-PENTANONE (MIBK)	2.0	ND	ND
METHYL tert BUTYL ETHER	0.5	ND	ND
METHYLENE CHLORIDE	2.0	ND	ND
NAPHTHALENE	0.5	ND	ND
N-PROPYLBENZENE	0.5	ND	ND
STYRENE	0.5	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.5	ND	ND

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## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: ug/L (PPB)  
PAGE: 3 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13

DATE RECEIVED: 05/03/13

DATE ANALYZED	05/06/13		
DATE EXTRACTED	05/06/13		
LAB SAMPLE I.D.	130503-6		
CLIENT SAMPLE I.D.	MW5m		
EXTRACTION SOLVENT	HELIUM GAS/WATER		
EXTRACTION METHOD	EPA 5030B		
DILUTION FACTOR (DF)	5		
COMPOUND	CRDL	MB	RESULT
1,1,2,2-TETRACHLOROETHANE	0.5	ND	ND
TETRACHLOROETHENE (PCE)	0.5	ND	170
TOLUENE	0.5	ND	ND
1,2,3-TRICHLOROBENZENE	0.5	ND	ND
1,2,4-TRICHLOROBENZENE	0.5	ND	ND
1,1,1-TRICHLOROETHANE	0.5	ND	ND
1,1,2-TRICHLOROETHANE	0.5	ND	ND
TRICHLOROETHENE (TCE)	0.5	ND	188
TRICHLOROFLUOROMETHANE	0.5	ND	4.71
FREON-113	0.5	ND	18.7
1,2,3-TRICHLOROPROPANE	0.5	ND	ND
1,2,4-TRIMETHYLBENZENE	0.5	ND	ND
1,3,5-TRIMETHYLBENZENE	0.5	ND	ND
VINYL CHLORIDE	0.5	ND	ND
M, P-XYLENE	1.0	ND	ND
O XYLENE	0.5	ND	ND

ug/L = MICROGRAM PER LITER = PPB

CRDL = CONTRACT REQUIRED DETECTION LIMIT

MB = METHOD BLANK

ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: 



## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L (PPB)  
 PAGE: 1 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: **Fero Environmental Engineering, Inc.**  
 431 W. Lambert Road, Suite 305  
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 Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13

DATE RECEIVED: 05/03/13

DATE ANALYZED	05/06/13		
DATE EXTRACTED	05/06/13		
LAB SAMPLE I.D.	130503-7		
CLIENT SAMPLE I.D.	MW5d		
EXTRACTION SOLVENT	HELIUM GAS/WATER		
EXTRACTION METHOD	EPA 5030B		
DILUTION FACTOR (DF)	NONE (15 Mls SURGED)		
COMPOUND	CRDL	MB	RESULT
ACETONE	2.0	ND	ND
BENZENE	0.5	ND	ND
BROMOBENZENE	0.5	ND	ND
BROMOCHLOROMETHANE	0.5	ND	ND
BROMODICHLOROMETHANE	0.5	ND	ND
BROMOFORM	0.5	ND	ND
BROMOMETHANE	0.5	ND	ND
2-BUTANONE (MEK)	2.0	ND	ND
N-BUTYLBENZENE	0.5	ND	ND
SEC-BUTYLBENZENE	0.5	ND	ND
TERT-BUTYLBENZENE	0.5	ND	ND
CARBON DISULFIDE	2.0	ND	ND
CARBON TETRACHLORIDE	0.5	ND	ND
CHLOROBENZENE	0.5	ND	ND
CHLOROETHANE	0.5	ND	ND
CHLOROFORM	0.5	ND	ND
CHLOROMETHANE	0.5	ND	ND
2-CHLOROTOLUENE	0.5	ND	ND
4-CHLOROTOLUENE	0.5	ND	ND
DIBROMOCHLOROMETHANE	0.5	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.5	ND	ND
1,2-DIBROMOETHANE	0.5	ND	ND
DIBROMOMETHANE	0.5	ND	ND
1,2-DICHLOROBENZENE	0.5	ND	ND
1,3-DICHLOROBENZENE	0.5	ND	ND
1,4-DICHLOROBENZENE	0.5	ND	ND

- CONTINUED -

**Enviro - Chem, Inc.**

1216 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

**LABORATORY REPORT**

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: UG/L (PPB)  
 PAGE: 2 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: **Fero Environmental Engineering, Inc.,**  
 431 W. Lambert Road, Suite 305  
 Brea, CA 92821  
 Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13

DATE RECEIVED: 05/03/13

DATE ANALYZED			05/06/13
DATE EXTRACTED			05/06/13
LAB SAMPLE I.D.			130503-7
CLIENT SAMPLE I.D.			MW5d
EXTRACTION SOLVENT			HELIUM GAS/WATER
EXTRACTION METHOD			EPA 5030B
DILUTION FACTOR (DF)			NONE (2.5 MLs PURGED)
<b>COMPOUND</b>	<b>CRDL</b>	<b>MB</b>	<b>RESULT</b>
DICHLORODIFLUOROMETHANE	0.5	ND	ND
1,1-DICHLOROETHANE	0.5	ND	6.48
CIS-1,2-DICHLOROETHENE	0.5	ND	37.7
TRANS-1,2-DICHLOROETHENE	0.5	ND	1.97
1,2-DICHLOROPROPANE	0.5	ND	ND
1,2-DICHLOROETHANE	0.5	ND	1.07
1,1-DICHLOROETHENE	0.5	ND	75.1
1,3-DICHLOROPROPANE	0.5	ND	ND
2,2-DICHLOROPROPANE	0.5	ND	ND
1,1-DICHLOROPROPENE	0.5	ND	ND
CIS-1,3-DICHLOROPROPENE	0.5	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.5	ND	ND
ETHYLBENZENE	0.5	ND	ND
2-HEXANONE	2.0	ND	ND
HEXACHLOROBTADIENE	0.5	ND	ND
IODOMETHANE	0.5	ND	ND
ISOPROPYLBENZENE	0.5	ND	ND
4-ISOPROPYLTOLUENE	0.5	ND	ND
4-METHYL-2-PENTANONE (MIBK)	2.0	ND	ND
METHYL tert-BUTYL ETHER	0.5	ND	ND
METHYLENE CHLORIDE	2.0	ND	ND
NAPHTHALENE	0.5	ND	ND
N-PROPYLBENZENE	0.5	ND	ND
STYRENE	0.5	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.5	ND	ND

- CONTINUED -



## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT:  $\mu\text{G/L (PPB)}$   
 PAGE: 3 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
 431 W. Lambert Road, Suite 305  
 Brea, CA 92821  
 Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13

DATE RECEIVED: 05/03/13


DATE ANALYZED	05/06/13		
DATE EXTRACTED	05/06/13		
LAB SAMPLE I.D.	130503-V		
CLIENT SAMPLE I.D.	MW5d		
EXTRACTION SOLVENT	HELIUM GAS/WATER		
EXTRACTION METHOD	EPA 5030B		
DILUTION FACTOR (DF)	NONE (15 MLs PURGED)		
COMPOUND	CRDL	MB	RESULT
1,1,2,2-TETRACHLOROETHANE	0.5	ND	ND
TETRACHLOROETHENE (PCE)	0.5	ND	3.29
TOLUENE	0.5	ND	ND
1,2,3-TRICHLOROBENZENE	0.5	ND	ND
1,2,4-TRICHLOROBENZENE	0.5	ND	ND
1,1,1-TRICHLOROETHANE	0.5	ND	ND
2,1,2-TRICHLOROETHANE	0.5	ND	ND
TRICHLOROETHENE (TCE)	0.5	ND	46.9
TRICHLOROFLUOROMETHANE	0.5	ND	ND
PERC-213	0.5	ND	ND
1,2,3-TRICHLOROPROPANE	0.5	ND	ND
1,2,4-TRIMETHYLBENZENE	0.5	ND	ND
1,3,5-TRIMETHYLBENZENE	0.5	ND	ND
VINYL CHLORIDE	0.5	ND	ND
M, P-XYLENE	1.0	ND	ND
O-XYLENE	0.5	ND	ND

 $\mu\text{G/L}$  = MICROGRAM PER LITER = PPB

CRDL = CONTRACT REQUIRED DETECTION LIMIT

MB = METHOD BLANK

ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: 

## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: ug/L (PPB)  
 PAGE: 1 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Faro Environmental Engineering, Inc.  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13DATE RECEIVED: 05/03/13

DATE ANALYZED			<u>05/07/13</u>
DATE EXTRACTED			<u>05/07/13</u>
LAB SAMPLE I.D.			<u>130503-8</u>
CLIENT SAMPLE I.D.			<u>MW6s</u>
EXTRACTION SOLVENT			<u>HELIUM GAS/WATER</u>
EXTRACTION METHOD			<u>EPA 5030B</u>
DILUTION FACTOR (DF)			<u>5</u>
COMPOUND	CRDL	MB	RESULT
ACETONE	2.0	ND	ND
BENZENE	0.5	ND	ND
BROMOBENZENE	0.5	ND	ND
BROMOCHLOROMETHANE	0.5	ND	ND
BROMODICHLOROMETHANE	0.5	ND	ND
BROMOFORM	0.5	ND	ND
BROMOMETHANE	0.5	ND	ND
2-BUTANONE (MEK)	2.0	ND	ND
N BUTYLBENZENE	0.5	ND	ND
SEC-BUTYLBENZENE	0.5	ND	ND
TERT BUTYLBENZENE	0.5	ND	ND
CARBON DISULFIDE	2.0	ND	ND
CARBON TETRACHLORIDE	0.5	ND	ND
CHLOROBENZENE	0.5	ND	ND
CHLOROETHANE	0.5	ND	ND
CHLOROFORM	0.5	ND	10.0
CHLOROMETHANE	0.5	ND	ND
2-CHLOROTOLUENE	0.5	ND	ND
4-CHLOROTOLUENE	0.5	ND	ND
DIBROMOCHLOROMETHANE	0.5	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.5	ND	ND
1,2-DIBROMOMETHANE	0.5	ND	ND
DIBROMOMETHANE	0.5	ND	ND
1,2-DICHLOROBENZENE	0.5	ND	ND
1,3-DICHLOROBENZENE	0.5	ND	ND
1,4-DICHLOROBENZENE	0.5	ND	ND

- CONTINUED -



**Enviro - Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

**LABORATORY REPORT**

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L (PPB)  
 PAGE: 2 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: **Fero Environmental Engineering, Inc.**  
 431 W. Lambert Road, Suite 305  
 Brea, CA 92821  
 Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13

DATE RECEIVED: 05/03/13

DATE ANALYZED			05/07/13
DATE EXTRACTED			05/07/13
LAB SAMPLE I.D.			130503-8
CLIENT SAMPLE I.D.			MW6s
EXTRACTION SOLVENT			HELIUM GAS/WATER
EXTRACTION METHOD			EPA 8030B
DILUTION FACTOR (DF)			5
<b>COMPOUND</b>	<b>CRDL</b>	<b>MB</b>	<b>RESULT</b>
DICHLORODIFLUOROMETHANE	0.5	ND	ND
1,1-DICHLOROETHANE	0.5	ND	19.2
CIS-2,2-DICHLOROETHENE	0.5	ND	178
TRANS-1,2-DICHLOROETHENE	0.5	ND	3.16
1,2-DICHLOROPROPANE	0.5	ND	ND
1,2-DICHLOROETHANE	0.5	ND	4.75
1,1-DICHLOROETHENE	0.5	ND	87.6
1,3-DICHLOROPROPANE	0.5	ND	ND
2,2-DICHLOROPROPANE	0.5	ND	ND
1,1-DICHLOROPROPENE	0.5	ND	ND
CIS-1,3-DICHLOROPROPENE	0.5	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.5	ND	ND
ETHYLBENZENE	0.5	ND	ND
2-HEXANONE	2.0	ND	ND
HEXACHLOROBUTADIENE	0.5	ND	ND
IODOMETHANE	0.5	NE	ND
ISOPROPYLBENZENE	0.5	ND	ND
4-ISOPROPYLTOLUENE	0.5	ND	ND
4-METHYL-2-PENTANONE (MIBK)	2.0	ND	ND
METHYL tert-BUTYL ETHER	0.5	ND	ND
METHYLENE CHLORIDE	2.0	ND	ND
NAPHTHALENE	0.5	ND	ND
N-PROPYLBENZENE	0.5	ND	ND
STYRENE	0.5	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.5	ND	NE

- CONTINUED -

## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: ug/l.(PPB)  
 PAGE: 3 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
431 W. Lambert Road, Suite 305  
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Tel(714)256-2737 Fax(714)256-1505

DATE SAMPLED: 05/02/13DATE RECEIVED: 05/03/13


DATE ANALYZED			05/07/13
DATE EXTRACTED			05/07/13
LAB SAMPLE I.D.			130503-B
CLIENT SAMPLE I.D.			MW6s
EXTRACTION SOLVENT			HELIUM GAS/WATER
EXTRACTION METHOD			EPA 5030B
DILUTION FACTOR (DF)			5
COMPOUND	CRDL	MB	RESULT
1,1,2,2-TETRACHLOROETHANE	0.5	ND	ND
TETRACHLOROETHENE (PCM)	0.5	ND	181
TOLUENE	0.5	ND	ND
1,2,3-TRICHLOROBENZENE	0.5	ND	ND
1,2,4-TRICHLOROBENZENE	0.5	ND	ND
1,1,1-TRICHLOROETHANE	0.5	ND	ND
1,1,2-TRICHLOROETHANE	0.5	ND	ND
TRICHLOROETHENE (TCE)	0.5	ND	128
TRICHLOROFLUOROMETHANE	0.5	ND	19.0
FREON-113	0.5	ND	27.4
1,2,3-TRICHLOROPROPANE	0.5	ND	ND
1,2,4-TRIMETHYLBENZENE	0.5	ND	ND
1,3,5-TRIMETHYLBENZENE	0.5	ND	ND
VINYL CHLORIDE	0.5	ND	21.4
M,P-XYLENE	1.0	ND	ND
O-XYLENE	0.5	ND	ND

ug/L = MICROGRAM PER LITER = PPB

CRDL = CONTRACT REQUIRED DETECTION LIMIT

MB = METHOD BLANK

ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: 



## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: UG/L (PPB)  
PAGE: 1 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13

DATE RECEIVED: 05/03/13

DATE ANALYZED 05/07/13  
DATE EXTRACTED 05/07/13  
LAB SAMPLE I.D. 130503-9  
CLIENT SAMPLE I.D. MW6m  
EXTRACTION SOLVENT HELIUM GAS/WATER  
EXTRACTION METHOD EPA 5030B  
DILUTION FACTOR (DF) 5

COMPOUND	CRDL	MB	RESULT
ACETONE	2.0	ND	ND
BENZENE	0.5	ND	ND
BROMOBENZENE	0.5	ND	ND
BROMOCHLOROMETHANE	0.5	ND	ND
BROMODICHLOROMETHANE	0.5	ND	ND
BROMOFORM	0.5	ND	ND
BROMOMETHANE	0.5	ND	ND
2-BUTANONE (MEK)	2.0	ND	ND
N-BUTYLBENZENE	0.5	ND	ND
SEC-BUTYLBENZENE	0.5	ND	ND
TERT-BUTYLBENZENE	0.5	ND	ND
CARBON DISULFIDE	2.0	ND	ND
CARBON TETRACHLORIDE	0.5	ND	ND
CHLOROBENZENE	0.5	ND	ND
CHLOROETHANE	0.5	ND	ND
CHLOROFORM	0.5	ND	8.39
CHLOROMETHANE	0.5	ND	ND
2-CHLOROTOLUENE	0.5	ND	ND
4-CHLOROTOLUENE	0.5	ND	ND
DIBROMOCHLOROMETHANE	0.5	ND	ND
1,2-DIBROMO-3-CHLOROPROPANE	0.5	ND	ND
1,2-DIBROMOETHANE	0.5	ND	ND
DIBROMOMETHANE	0.5	ND	ND
1,2-DICHLOROBENZENE	0.5	ND	ND
1,3-DICHLOROBENZENE	0.5	ND	ND
1,4-DICHLOROBENZENE	0.5	ND	ND

- CONTINUED -

**Enviro - Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91766 Tel (909) 590-5905 Fax (909) 590-5907

**LABORATORY REPORT**

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: UG/L(PPB)  
PAGE: 2 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: **Fero Environmental Engineering, Inc.**  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13

DATE RECEIVED: 05/03/13

DATE ANALYZED			05/07/13
DATE EXTRACTED			05/07/13
LAB SAMPLE I.D.			130503-9
CLIENT SAMPLE I.D.			MW6m
EXTRACTION SOLVENT			HELIUM GAS/WATER
EXTRACTION METHOD			EPA 5030B
DILUTION FACTOR (DF)			5
COMPOUND	CRDL	MB	RESULT
DICHLORODIFLUOROMETHANE	0.5	ND	ND
1,1-DICHLOROETHANE	0.5	ND	21.0
CIS-1,2-DICHLOROETHENE	0.5	ND	49.4
TRANS-1,2-DICHLOROETHENE	0.5	ND	ND
1,2-DICHLOROPROPANE	0.5	ND	ND
1,2-DICHLOROETHANE	0.5	ND	4.87
1,1-DICHLOROETHENE	0.5	ND	112
1,3-DICHLOROPROPANE	0.5	ND	ND
2,2-DICHLOROPROPANE	0.5	ND	ND
1,1-DICHLOROPROPENE	0.5	ND	ND
CIS-1,3-DICHLOROPROPENE	0.5	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.5	ND	ND
ETHYLBENZENE	0.5	ND	ND
2-HEXANONE	2.0	ND	ND
HEXACHLOROBUTADIENE	0.5	ND	ND
IODOMETHANE	0.5	ND	ND
ISOPROPYLBENZENE	0.5	ND	ND
4-ISOPROPYLTOLUENE	0.5	ND	ND
4-METHYL 2-PENTANONE (MIBK)	2.0	ND	ND
METHYL tert-BUTYL ETHER	0.5	ND	ND
METHYLENE CHLORIDE	2.0	ND	ND
NAPHTHALENE	0.5	ND	ND
N-PROPYLBENZENE	0.5	ND	ND
STYRENE	0.5	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.5	ND	ND

- CONTINUED -



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**LABORATORY REPORT**

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: uG/L (PPE)  
PAGE: 3 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13

DATE RECEIVED: 05/03/13

DATE ANALYZED 05/07/13  
DATE EXTRACTED 05/07/13  
LAB SAMPLE I.D. 130503-9  
CLIENT SAMPLE I.D. MW6m  
EXTRACTION SOLVENT HELIUM GAS/WATER  
EXTRACTION METHOD EPA 5030B  
DILUTION FACTOR (DF) 5


COMPOUND	CRDL	MB	RESULT
<u>1,1,2,2-TETRACHLOROETHANE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>TETRACHLOROETHENE (PCE)</u>	<u>0.5</u>	<u>ND</u>	<u>208</u>
<u>TOLUENE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>1,2,3-TRICHLOROBENZENE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>1,2,4-TRICHLOROBENZENE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>1,1,1-TRICHLOROETHANE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>1,1,2-TRICHLOROETHANE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>TRICHLOROETHENE (TCE)</u>	<u>0.5</u>	<u>ND</u>	<u>146</u>
<u>TRICHLOROFLUOROMETHANE</u>	<u>0.5</u>	<u>ND</u>	<u>8.64</u>
<u>PERON-113</u>	<u>0.5</u>	<u>ND</u>	<u>24.7</u>
<u>1,2,3-TRICHLOROPROPANE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>1,2,4-TRIMETHYLBENZENE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>1,3,5-TRIMETHYLBENZENE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>VINYL CHLORIDE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>
<u>M, P-XYLENE</u>	<u>1.0</u>	<u>ND</u>	<u>ND</u>
<u>O-XYLENE</u>	<u>0.5</u>	<u>ND</u>	<u>ND</u>

uG/L = MICROGRAM PER LITER = PPE

CRDL = CONTRACT REQUIRED DETECTION LIMIT

MB = METHOD BLANK

ND = NON-DETECTED OR BELOW THE CRDL

DATA APPROVED BY: 

**Enviro - Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91768 Tel (909) 590-5905 Fax (909) 580-5907

**LABORATORY REPORT**

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: µG/L (PPB)  
PAGE: 1 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: **Fero Environmental Engineering, Inc.**  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13

DATE RECEIVED: 05/03/13

DATE ANALYZED 05/06/13  
DATE EXTRACTED 05/06/13  
LAB SAMPLE I.D. 130503-10  
CLIENT SAMPLE I.D. MW6d  
EXTRACTION SOLVENT HELIUM GAS/WATER  
EXTRACTION METHOD EPA 5030B  
DILUTION FACTOR (DF) NONE (15 MLs PURGED)

COMPOUND	CRDL	MB	RESULT
ACETONE	2.0	ND	ND
BENZENE	0.5	ND	ND
BROMOBENZENE	0.5	ND	ND
BROMOCHLOROMETHANE	0.5	ND	ND
BROMODICHLOROMETHANE	0.5	ND	ND
BROMOFORM	0.5	ND	ND
BROMOMETHANE	0.5	ND	ND
2-BUTANONE (MEK)	2.0	ND	ND
N-BUTYLBENZENE	0.5	ND	ND
SEC-BUTYLBENZENE	0.5	ND	ND
tert-BUTYLBENZENE	0.5	ND	ND
CARBON DISULFIDE	2.0	ND	ND
CARBON TETRACHLORIDE	0.5	ND	ND
CHLOROBENZENE	0.5	ND	ND
CHLOROETHANE	0.5	ND	ND
CHLOROFORM	0.5	ND	ND
CHLOROMETHANE	0.5	ND	ND
2-CHLOROTOLUENE	0.5	ND	ND
4-CHLOROTOLUENE	0.5	ND	ND
DIBROMOCHLOROMETHANE	0.5	ND	ND
1,2-DIBROMO 3-CHLOROPROPANE	0.5	ND	ND
1,2-DIBROMOETHANE	0.5	ND	ND
DIBROMOMETHANE	0.5	ND	ND
1,2-DICHLOROBENZENE	0.5	ND	ND
1,3-DICHLOROBENZENE	0.5	ND	ND
1,4-DICHLOROBENZENE	0.5	ND	ND

- CONTINUED -



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**LABORATORY REPORT**

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: UG/L (PPB)  
PAGE: 2 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: **Pero Environmental Engineering, Inc.**  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13

DATE RECEIVED: 05/03/13

DATE ANALYZED			05/06/13
DATE EXTRACTED			05/06/13
LAB SAMPLE I.D.			130503-10
CLIENT SAMPLE I.D.			MW6d
EXTRACTION SOLVENT			HELIUM GAS/WATER
EXTRACTION METHOD			EPA 5030B
DILUTION FACTOR (DF)			NONE (15 MLs PURGED)
COMPOUND	CRDL	MB	RESULT
DICHLORODIFLUOROMETHANE	0.5	ND	ND
1,1-DICHLOROETHANE	0.5	ND	11.2
CIS-1,2-DICHLOROETHENE	0.5	ND	71.7
TRANS-1,2-DICHLOROETHENE	0.5	ND	0.66
1,2-DICHLOROPROPANE	0.5	ND	ND
1,2-DICHLOROETHANOL	0.5	ND	2.49
1,1-DICHLOROETHENE	0.5	ND	172
1,3-DICHLOROPROPANE	0.5	ND	ND
2,2-DICHLOROPROPANE	0.5	ND	ND
1,1-DICHLOROPROPENE	0.5	ND	ND
CIS-1,3-DICHLOROPROPENE	0.5	ND	ND
TRANS-1,3-DICHLOROPROPENE	0.5	ND	ND
ETHYLBENZENE	0.5	ND	ND
2-HEXANONE	2.0	ND	ND
HEXACHLOROCYCLOPENTADIENE	0.5	ND	ND
IODOMETHANE	0.5	ND	ND
ISOPROPYLBENZENE	0.5	ND	ND
4-ISOPROPYLTOLUENE	0.5	ND	ND
4-METHYL-2-PENTANONE (MIBK)	2.0	ND	ND
METHYL tert-BUTYL ETHER	0.5	ND	ND
METHYLENE CHLORIDE	2.0	ND	ND
NAPHTHALENE	0.5	ND	ND
N-PROPYLBENZENE	0.5	ND	ND
STYRENE	0.5	ND	ND
1,1,1,2-TETRACHLOROETHANE	0.5	ND	ND

- CONTINUED

## LABORATORY REPORT

METHOD: EPA 8260B MATRIX: WATER REPORTING UNIT: UG/L (PPB)  
 PAGE: 3 OF 3 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13DATE RECEIVED: 05/03/13


DATE ANALYZED	05/06/13		
DATE EXTRACTED	05/06/13		
LAB SAMPLE I.D.	130503-10		
CLIENT SAMPLE I.D.	MW6d		
EXTRACTION SOLVENT	HELIUM GAS/WATER		
EXTRACTION METHOD	EPA 5030B		
DILUTION FACTOR (DF)	NONE (15 MLs PURGED)		
COMPOUND	CRDL	MB	RESULT
1,1,2,2-TETRACHLOROETHANE	0.5	ND	ND
TETRACHLOROETHENE (PCE)	0.5	ND	14.2
TOLUENE	0.5	ND	ND
1,2,3-TRICHLOROBENZENE	0.5	ND	ND
1,2,4-TRICHLOROBENZENE	0.5	ND	ND
1,1,1-TRICHLOROMETHANE	0.5	ND	ND
1,1,2-TRICHLOROETHANE	0.5	ND	ND
TRICHLOROETHENE (TCE)	0.5	ND	167
TRICHLOROFUOROMETHANE	0.5	ND	ND
PERSON-113	0.5	ND	ND
1,2,3-TRICHLOROPROPANE	0.5	ND	ND
1,2,4-TRIMETHYLBENZENE	0.5	ND	ND
1,3,5-TRIMETHYLBENZENE	0.5	ND	ND
VINYL CHLORIDE	0.5	ND	ND
M,P XYLENE	1.0	ND	ND
O-XYLENE	0.5	ND	ND

UG/L = MICROGRAM PER LITER = PPB

CRDL = CONTRACT REQUIRED DETECTION LIMIT

MB = METHOD BLANK

ND = NON DETECTED OR BELOW THE CRDL

DATA APPROVED BY: 

## QA/QC REPORT

METHOD: MPA 8260B MATRIX: WATER REPORTING UNIT: UG/L (PPB)  
PAGE: 1 OF 8 PAGES PROJECT: Continental Heat Treating / 10-758

CUSTOMER: Fero Environmental Engineering, Inc.  
431 W. Lambert Road, Suite 305  
Brea, CA 92821  
Tel (714) 256-2737 Fax (714) 256-1505

DATE SAMPLED: 05/02/13 DATE RECEIVED: 05/03/13

DATE ANALYZED: 05/06-07/13

DATE EXTRACTION: 05/06-07/13

SEE ATTACHED PAGES (7)



**Enviro-Chem, Inc.**

1214 E. Lexington Avenue, Pomona, CA 91766

Tel (909)590-5905

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①

**8260B QA/QC Report**

Date Analyzed: **5/6-7/2013**

Method: **524BW152**

Machine: **B**

Matrix: **Water**

Unit: **ug/L (PPB)**

**Matrix Spike (MS)/Matrix Spike Duplicate (MSD)**

Spiked Sample Lab I.D.: **130506-LCS1/2**

Analyte	S.R.	spk conc	MS	%RC	MSD	%RC	%RPD	ACP %RC	ACP RPD
Trichloroethene	0.00	25.0	23.9	96%	25.6	102%	7%	80-120	0-20
Toluene	0.00	25.0	25.4	102%	26.9	104%	2%	80-120	0-20
Ethylbenzene	0.00	25.0	27.7	111%	29.9	120%	8%	80-120	0-20
Cis-1,2-Dichloroethene	0.00	25.0	20.5	82%	22.3	89%	8%	80-120	0-20
Tetrachloroethene	0.00	25.0	29.8	119%	28.9	116%	3%	80-120	0-20

**Lab Control Spike (LCS)**

Analyte	spk conc	LCS	%RC	ACP %RC
1,1,1-TCA	25.0	23.0	92%	80-120
Tetrachloroethene	25.0	27.8	111%	80-120
Benzene	25.0	24.7	99%	80-120
Toluene	25.0	25.8	103%	80-120
Ethylbenzene	25.0	24.2	97%	80-120
Chloroform	25.0	25.6	102%	80-120

Calibration date: **1/23/2013**

**Continuing Calibration Check (CCC)**

Analyte	AvgRF	CCRF	%Dev	%RSD
1,1,1-TCA	0.748	0.774	3.34	10.23
Trichloroethene	0.357	0.364	1.96	12.24
Tetrachloroethene	0.996	1.001	0.50	12.75
Toluene	1.322	1.369	3.56	10.80
Chloroform	0.808	0.792	1.98	6.86
Cis-1,2-Dichloroethene	1.064	1.080	1.50	8.99

Surrogate Recovery	spk conc	ACP%	MB %RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.			<b>M-BLK</b>	<b>130503-1</b>	<b>130503-2</b>	<b>130503-3</b>	<b>130503-4</b>	<b>130503-5</b>	<b>130503-6</b>
Dibromofluoromethane	25.0	75-125	129%	120%	115%	117%	120%	114%	120%
Toluene-d8	25.0	75-125	100%	101%	100%	104%	108%	130%	102%
4-Bromofluorobenzene	25.0	75-125	117%	120%	111%	121%	102%	97%	94%

Surrogate Recovery	spk conc	ACP%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.			<b>130503-7</b>	<b>130503-8</b>	<b>130503-9</b>	<b>130503-10</b>			
Dibromofluoromethane	25.0	75-125	134*%	119%	118%	115%			
Toluene-d8	25.0	75-125	103%	100%	100%	101%			
4-Bromofluorobenzene	25.0	75-125	95%	122%	121%	92%			

Surrogate Recovery	spk conc	ACP%	%RC	%RC	%RC	%RC	%RC	%RC	%RC
Sample I.D.									
Dibromofluoromethane	25.0	75-125							
Toluene-d8	25.0	75-125							
4-Bromofluorobenzene	25.0	75-125							

\* = Surrogate fail due to matrix interference: LCS, MS, MSD are in control therefore the analysis is in control.

S.R. = Sample Results

%RC = Percent Recovery


spk conc = Spike Concentration

ACP %RC = Accepted Percent Recovery

MS = Matrix Spike

MSD = Matrix Spike Duplicate

Analyzed/Reviewed By: 

Final Reviewer: 



GC Sequence #	Standard Name:	Solvent	Stock Standard	Calculation $\frac{\text{STD V} \times \text{STD Conc.}}{\text{Total Volume}} = \text{Final Conc.}$	Ref./ Page	Prep. Date	Exp. Date	Initial
2655	Ethylene Glycol US	Name: CH <sub>2</sub> OH Source: Fisher Cat #: D37-4 Lot #: 116832 Exp. Date:	Name: Ethylene Glycol Source: Aldrich Cat #: 324558-100mL Lot #: 28496 TMV Exp. Date:	$\frac{10 \text{ mL} \times 99.8\%}{50 \text{ mL}} = 200 \text{ ppm}$		7/18/12	7/17/2013	SV
2656	8700B Gas	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 110412 Exp. Date:	Name: Gas std Source: Ultra Cat #: DWM-514 Lot #: CG-1486 Exp. Date: 9/30/2014	$\frac{12.5 \text{ mL} \times 2000 \text{ ppm}}{0.50 \text{ mL}} = 50.0 \text{ ppm}$		7/19/12	7/30/12	PW
2657	8700B Gas	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 110412 Exp. Date:	Name: Gas std Source: Ultra Cat #: DWM-514 Lot #: CG-1486 Exp. Date: 9/30/2014	$\frac{12.5 \text{ mL} \times 2000 \text{ ppm}}{0.50 \text{ mL}} = 50.0 \text{ ppm}$		7/31/12	8/6/12	PW
2658	8700B 15/surv	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 110412 Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	Check Detail in logbook X A3-p63		7/30/12	11/30/12	PW
2659	8700 TUNE Standard	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 110412 Exp. Date:	Name: 1-bromo-4-fluorobenzene (BFB) Source: Aldrich Cat #: B67201-100 G Lot #: 1251580 Exp. Date: 99%	$\frac{1.010 \text{ g} \times 99\%}{100.0 \text{ mL}} = 10.000 \text{ ppm}$		8/7/12	8/1/13	PW
2660	8700 TUNE std. 5ppm	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 110412 Exp. Date:	Name: GC-2659 Source: Cat #: Lot #: Exp. Date:	$\frac{5 \text{ mL} \times 10.000 \text{ ppm}}{10 \text{ mL}} = 5 \text{ ppm}$		8/7/12	8/1/13	PW
2661	8700 TUNE std 50ppm	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 110412 Exp. Date:	Name: GC-2659 Source: Cat #: Lot #: Exp. Date:	$\frac{50 \text{ mL} \times 10.000 \text{ ppm}}{10 \text{ mL}} = 50 \text{ ppm}$		8/7/12	8/1/13	PW

GC Sequence #	Standard Name:	Solvent	Stock Standard	Calculation STD V X STD Conc. = Final Conc. Total Volume	Ref./ Page	Prep. Date	Exp. Date	Initial
2767	Acedin	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 113540 Exp. Date: /	Name: Acedin Source: Aldrich Cat #: 110721 Lot #: 155173 PB Exp. Date: /	$26.33 \mu\text{L} \times \frac{1.89 \times 90\%}{10.0 \text{ mL}} = 2000 \text{ ppm}$ ( $\mu\text{g/mL}$ )	-	3/19/13	3/8/14	PW
2768	8260B LLS	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 113540 Exp. Date: /	Name: / Source: / Cat #: / Lot #: / Exp. Date: /	Check Details in Logbook X = A3-P94	-	3/19/13	8/31/13	<del>PW</del>
2769	8260B Gas	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 113540 Exp. Date: /	Name: / Source: AC-310 Cat #: / Lot #: / Exp. Date: /	$12.5 \mu\text{L} \times 2000 \text{ ppm} = 50.0 \text{ ppm}$ 0.50 mL	-	3/26/13	4/1/13	PW
2770	8260B Gas	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 113540 Exp. Date: /	Name: / Source: GC-310 Cat #: / Lot #: / Exp. Date: /	$12.5 \mu\text{L} \times 2000 \text{ ppm} = 50.0 \text{ ppm}$ 0.50 mL	-	4/1/13	4/8/13	PW
2771	8260B IS/curr	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 113540 Exp. Date: /	Name: / Source: / Cat #: / Lot #: / Exp. Date: /	Check Details in logbook X = A3-95	-	4/1/13	10/31/14	PW
2772	8260B CCV	Name: MeOH Source: Fisher Cat #: A453-1 Lot #: 113540 Exp. Date: /	Name: / Source: / Cat #: / Lot #: / Exp. Date: /	Detail in logbook X = A4-P1	-	4/1/13	6/30/13	PW
2773	8270 IS	Name: CH <sub>2</sub> Cl <sub>2</sub> Source: Fisher Cat #: D37-4 Lot #: 110832 Exp. Date: /	Name: LITRA Source: Semi-volatiles internal Std. Cat #: VS-108N Lot #: CH-776L Exp. Date: 6/30/14	$100 \mu\text{L} \times 4000 \text{ ppm} = 400 \text{ ppm}$ 1 mL	-	4/8/13	4/8/14	B

GC Sequence #	Standard Name:	Solvent	Stock Standard	Calculation	Ref./ Page	Prep. Date	Exp. Date	Initial
				$\frac{\text{STD V} \times \text{STD Conc.}}{\text{Total Volume}} = \text{Final Conc.}$				
2781	8x60B Gas	Name: MeOH Source: Fisher Cat #: A483-1 Lot #: 113540 Exp. Date:	Name: Source: GC-310 Cat #: Lot #: Exp. Date:	$\frac{12.5\mu\text{L} \times 2000\text{ppm}}{0.50\text{mL}} = 50.0\text{ppm}$	-	4/29/13	5/6/13	PW
2782	8x60B Gas	Name: MeOH Source: Fisher Cat #: A483-1 Lot #: 113540 Exp. Date:	Name: Source: GC-310 Cat #: Lot #: Exp. Date:	$\frac{12.5\mu\text{L} \times 2000\text{ppm}}{0.50\text{mL}} = 50.0\text{ppm}$	-	5/6/13	5/13/13	PW
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	$\frac{\text{X}}{\text{ }} =$				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	$\frac{\text{X}}{\text{ }} =$				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	$\frac{\text{X}}{\text{ }} =$				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	$\frac{\text{X}}{\text{ }} =$				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	$\frac{\text{X}}{\text{ }} =$				
		Name: Source: Cat #: Lot #: Exp. Date:	Name: Source: Cat #: Lot #: Exp. Date:	$\frac{\text{X}}{\text{ }} =$				

Standard Name: 8260B 19SurvAnalyst: PWGC #: 2771Preparation Date: 4/1/2013Expiration Date: 10/31/14

Compound Name	Source	Catalog #	Lot #	Exp date	Calculation STD V x STD Conc = Final Conc Total Volume	Initial
Surrogate Std. Mix	Uetia	STM-330N-1	OH-3116	10/31/14	$\frac{250\mu\text{L} \times 2000\text{ppm}}{10.0\mu\text{L}} = 50.0\text{ppm}$	PW
Internal Std. Mix	Uetia	STM-341N	CJ-4319	10/31/16	$\frac{250\mu\text{L} \times 2000\text{ppm}}{10.0\mu\text{L}} = 50.0\text{ppm}$	PW
					<u>X</u> =	
					<u>X</u> =	
					<u>X</u> =	
					<u>X</u> =	
					<u>X</u> =	
					<u>X</u> =	
					<u>X</u> =	
					<u>X</u> =	
					<u>X</u> =	
					<u>X</u> =	

Total Standard Volume: 0.500mLAdded Solvent Volume: 9.50mLFinal Volume: 10.0mL



Standard Name: PMOB LISAnalyst: PWGC #: 2768Preparation Date: 3/19/13Expiration Date: 8/31/13

Compound Name	Source	Catalog #	Lot #	Exp date	Calculation	Initial
					$\frac{\text{STD V} \times \text{STD Conc}}{\text{Total Volume}} = \text{Final Conc}$	
Acrolein	GC-2767	—	—	3/18/14	$\frac{1.25 \text{ mL} \times 2000 \text{ ppm}}{5.0 \text{ mL}} = 50.0 \text{ ppm}$	PW
VOC Mixture	Ultra Scientific	DWM-589N-1	CH-3339	11/30/14	$\frac{1.25 \text{ mL} \times 2000 \text{ ppm}}{5.0 \text{ mL}} = 50.0 \text{ ppm}$	PW
VOC Mixture	Ultra Scientific	DWM-592-1	CE-2384	8/31/13	$\frac{1.25 \text{ mL} \times 2000 \text{ ppm}}{5.0 \text{ mL}} = 50.0 \text{ ppm}$	PW
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	

Total Standard Volume: 0.375 mLAdded Solvent Volume: 4.625 mLFinal Volume: 5.0 mL

(2)



Standard Name: 8rbob CCVAnalyst: PWGC #: 2772Preparation Date: 4/1/2013Expiration Date: 6/30/13

Compound Name	Source	Catalog #	Lot #	Exp date	Calculation STD V x STD Conc = Final Conc	Initial
					Total Volume	
Acrolein Standard	Restek	30645	A494022	06/2013	$100 \mu\text{L} \times 5000 \text{ppm} = 50.0 \text{ppm}$ 10.0 mL	PW
8rbob Calib. Mix	Restek	30633	A477801	11/2013	$250 \mu\text{L} \times 2000 \text{ppm} = 50.0 \text{ppm}$ 10.0 mL	PW
VOA Calib. Mix #1	Restek	30006	A476449	11/2013	$250 \mu\text{L} \times 2000 \text{ppm} = 50.0 \text{ppm}$ 10.0 mL	PW
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	
					X =	

Total Standard Volume: 0.60 mLAdded Solvent Volume: 9.40 mLFinal Volume: 10.0 mL

**Enviro-Chem, Inc. Laboratories**  
 1214 E. Lexington Avenue,  
 Pomona, CA 91766  
 Tel: (909) 590-5905 Fax: (909) 590-5907  
**CA-DHS ELAP CERTIFICATE #1555**

Turnaround Time  
☐ Same Day  
☐ 24 Hours  
☐ 48 Hours  
☐ 72 Hours  
☒ 1 Week (Standard)  
 Other:

SAMPLE ID	LAB ID	SAMPLING DATE TIME	MATRIX	No. OF CONTAINERS	TEMPERATURE	PRESERVATION	Analysis Required										COMMENTS
MW1	130103-1	5/2/13	H <sub>2</sub> O	2		HEV	X										
MW2	-2						X										
MW3	-3						X										
MW4	-4						X										
MW5s	-5						X										
MW5m	-6						X										
MW5d	-7						X										
MW6s	-8						X										
MW6m	-9						X										
MW6d	-10						X										

Company Name: <b>Fero Eng</b>		Project Contact: <b>John Petersen</b>		Sampler's Signature: <i>John Petersen</i>	
Address: <b>431 W. Lambert #305</b>		Tel: <b>714 256 2737</b>		Project Name/ID: <b>10-758</b>	
City/State/Zip: <b>Brea CA 92821</b>		Fax: <b>feroeng@aol.com</b>		Continental Heat Treating	
Relinquished by: <i>John Petersen</i>	Received by: <i>[Signature]</i>	Date & Time: <b>5/3/13 0907</b>	Instructions for Sample Storage After Analysis:		
Relinquished by:	Received by:	Date & Time:	<input checked="" type="checkbox"/> Dispose of <input type="checkbox"/> Return to Client <input type="checkbox"/> Store (30 Days)		
Relinquished by:	Received by:	Date & Time:	<input type="checkbox"/> Other:		

**CHAIN OF CUSTODY RECORD**

Date: \_\_\_\_\_

WHITE WITH SAMPLE • YELLOW TO CLIENT

ATTACHMENT C

Report Data EPA Format

TABLE 1-1  
Well Construction Summary  
Continental Heat Treat, Santa Fe Springs, California

Location	Well Type	Latitude Y	Longitude X	XY Datum	XY Method	Surface Elevation	Casing Elevation	Z Datum	Z Method	Well Depth	Top of Screen Depth	Bottom of Screen Depth	Aquifer	Well Diameter	Well Casing Material	Well Screen Material	Owner	Date Installed
MW-1	Monitoring Well	33.9367102	-118.073789	NAD 83	NGS PID	137.55	137.08	NAD83	DIG	120.0	90.0	120.0	Aquifer A	2	Sch. 40 PVC	Slotted PVC 0.02"	CHT	08/03/10
MW-2	Monitoring Well	33.9371178	-118.073914	NAD83	NGS PID	138.36	138.04	NAD83	DIG	120.0	90.0	120.0	Aquifer A	2	Sch. 40 PVC	Slotted PVC 0.02"	CHT	08/04/10
MW-3	Monitoring Well	33.9370688	-118.072881	NAD83	NGS PID	138.18	137.73	NAD83	DIG	120.0	90.0	120.0	Aquifer A	2	Sch. 40 PVC	Slotted PVC 0.02"	CHT	08/05/10
MW-4	Monitoring Well	33.9370021	-118.073308	NAD83	NGS PID	138.54	137.55	NAD83	DIG	117.0	90.0	117.0	Aquifer A	4	Sch. 40 PVC	Slotted PVC 0.02"	CHT	10/24/11
MW-5D	Monitoring Well	33.9367072	-118.073407	NAD83	NGS PID	137.81	137.54	NAD83	DIG	170.0	160.0	170.0	Aquifer C	4	Sch. 40 PVC	Slotted PVC 0.02"	CHT	07/11/12
MW-5M	Monitoring Well	33.9367069	-118.073425	NAD83	NGS PID	137.80	137.37	NAD83	DIG	140.0	130.0	140.0	Aquifer B	4	Sch. 40 PVC	Slotted PVC 0.02"	CHT	07/10/12
MW-5S	Monitoring Well	33.9367073	-118.073441	NAD83	NGS PID	137.80	137.49	NAD83	DIG	110.0	90.0	110.0	Aquifer A	4	Sch. 40 PVC	Slotted PVC 0.02"	CHT	07/09/12
MW-6D	Monitoring Well	33.9371196	-118.073674	NAD83	NGS PID	138.24	138.01	NAD83	DIG	170.0	160.0	170.0	Aquifer C	4	Sch. 40 PVC	Slotted PVC 0.02"	CHT	07/24/12
MW-6M	Monitoring Well	33.9371202	-118.073709	NAD83	NGS PID	138.20	137.95	NAD83	DIG	140.0	130.0	140.0	Aquifer B	4	Sch. 80 PVC	Slotted PVC 0.02"	CHT	07/20/12
MW-6S	Monitoring Well	33.9371205	-118.073725	NAD83	NGS PID	138.24	137.84	NAD83	DIG	110.0	20.0	110.0	Aquifer A	4	Sch. 40 PVC	Slotted PVC 0.02"	CHT	07/19/12

Notes:  
NA = information not available or data not applicable  
Sch 40 = Schedule 40 polyvinyl chloride  
Sch 80 = Schedule 80 polyvinyl chloride  
PVC = polyvinyl chloride  
Elevation in feet relative to mean sea level

Consultant
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